#6

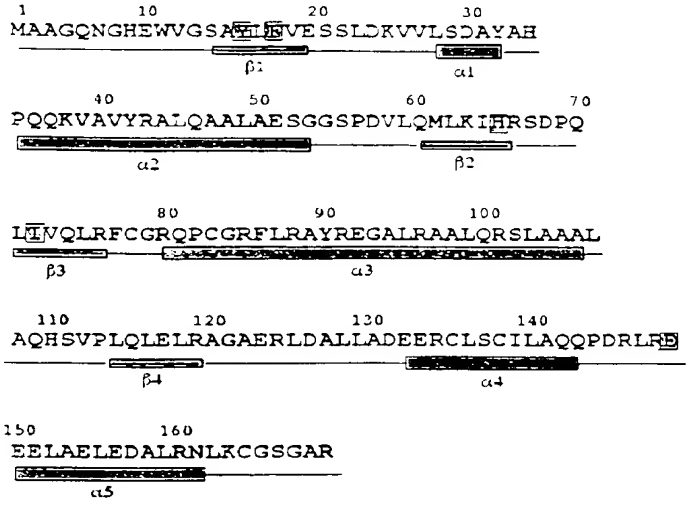

FIG. 1

		Atom Type	Residue		X	Y	Z			
ATOM	1	CA	MET	1	-24.866	15.535	-19.264	1.00	15.51	SEG1
ATOM	2	HA	MET	1	-25.390	14.593	-19.279	1.00	15.31	SEG1
ATOM	3	CB	MET	1	-25.849	16.777	-18.999	1.00	15.70	SEG1
ATOM	4	HB1	MET	1	-26.446	16.343	-19.893	1.00	15.58	SEG1
ATOM	5	HB2	MET	1	-25.298	17.678	-18.764	1.00	15.98	SEG1
ATOM	6	CG	MET	1	-26.765	16.422	-17.827	1.00	15.88	SEG1
ATOM	7	HG1	MET	1	-26.172	16.103	-16.986	1.00	16.14	SEG1
ATOM	8	HG2	MET	1	-27.432	15.624	-18.121	1.00	15.63	SEG1
ATOM	9	SD	MET	1	-27.737	17.876	-17.362	1.00	16.37	SEG1
ATOM	10	CE	MET	1	-28.779	17.948	-18.839	1.00	16.46	SEG1
ATOM	11	HE1	MET	1	-28.342	17.340	-19.619	1.00	16.46	SEG1
ATOM	12	HE2	MET	1	-28.851	18.969	-19.180	1.00	16.49	SEG1
ATOM	13	HE3	MET	1	-29.765	17.580	-18.600	1.00	16.65	SEG1
ATOM	14	C	MET	1	-24.152	15.871	-20.591	1.00	15.23	SEG1
ATOM	15	O	MET	1	-23.015	16.304	-20.628	1.00	15.46	SEG1
ATOM	16	N	MET	1	-23.891	15.675	-18.134	1.00	16.16	SEG1
ATOM	17	HT1	MET	1	-23.122	15.001	-18.319	1.00	16.50	SEG1
ATOM	18	HT2	MET	1	-24.371	15.419	-17.249	1.00	16.33	SEG1
ATOM	19	HT3	MET	1	-23.495	16.634	-18.051	1.00	16.24	SEG1
ATOM	20	N	ALA	2	-24.826	15.613	-21.680	1.00	14.89	SEG1
ATOM	21	HN	ALA	2	-25.749	15.283	-21.617	1.00	14.81	SEG1
ATOM	22	CA	ALA	2	-24.206	15.846	-23.013	1.00	14.80	SEG1
ATOM	23	HA	ALA	2	-23.256	15.339	-23.085	1.00	15.17	SEG1
ATOM	24	CB	ALA	2	-25.199	15.268	-24.026	1.00	15.06	SEG1
ATOM	25	HB1	ALA	2	-25.968	15.998	-24.234	1.00	15.17	SEG1
ATOM	26	HB2	ALA	2	-25.650	14.375	-23.618	1.00	15.16	SEG1
ATOM	27	HB3	ALA	2	-24.680	15.021	-24.941	1.00	15.20	SEG1
ATOM	28	C	ALA	2	-24.035	17.355	-23.207	1.00	14.21	SEG1
ATOM	29	O	ALA	2	-24.023	18.097	-22.248	1.00	13.70	SEG1
ATOM	30	N	ALA	3	-23.920	17.811	-24.431	1.00	14.43	SEG1
ATOM	31	HN	ALA	3	-23.947	17.183	-25.183	1.00	14.93	SEG1
ATOM	32	CA	ALA	3	-23.761	19.283	-24.704	1.00	14.09	SEG1
ATOM	33	HA	ALA	3	-23.704	19.448	-25.769	1.00	14.05	SEG1
ATOM	34	CB	ALA	3	-25.032	19.954	-24.154	1.00	14.73	SEG1
ATOM	35	HB1	ALA	3	-25.766	19.196	-23.921	1.00	15.01	SEG1
ATOM	36	HB2	ALA	3	-25.435	20.624	-24.899	1.00	14.84	SEG1
ATOM	37	HB3	ALA	3	-24.797	20.512	-23.260	1.00	14.95	SEG1
ATOM	38	C	ALA	3	-22.497	19.847	-24.031	1.00	13.47	SEG1
ATOM	39	O	ALA	3	-21.504	20.099	-24.689	1.00	13.42	SEG1
ATOM	40	N	GLY	4	-22.521	20.052	-22.737	1.00	13.16	SEG1
ATOM	41	HN	GLY	4	-23.326	19.842	-22.224	1.00	13.34	SEG1
ATOM	42	CA	GLY	4	-21.324	20.601	-22.038	1.00	12.72	SEG1
ATOM	43	HA1	GLY	4	-21.640	21.265	-21 248	1.00	13.03	SEG1
ATOM	44	HA2	GLY	4	-20.715	21.145	-22.745	1.00	12.88	SEG1
ATOM	45	C	GLY	4	-20.510	19.454	-21.438	1.00	11.83	SEG1
ATOM	46	O	GLY	4	-20.666	18.306	-21.810	1.00	11.80	SEG1
ATOM	47	N	GLN	5	-19.639	19.764	-20 517	1.00	11.27	SEG1
ATOM	48	HN	GLN	5	-19.534	20.700	-20 246	1.00	11.46	SEG1
ATOM	49	CA	GLN	5	-18.796	18.703	-19 882	1.00	10.54	SEG1
ATOM	50	HA	GLN	5	-18.209	18.192	-20 629	1.00	10.74	SEG1
ATOM	51	CB	GLN	5	-17.867	19.456	-18 918	1.00	10.66	SEG1
ATOM	52	HB1	GLN	5	-17.255	20.149	-19 477	1.00	10.48	SEG1
ATOM	53	HB2	GLN	5	-17.231	18.747	-18 408	1.00	10.80	SEG1
ATOM	54	CG	GLN	5	-18.696	20.230	-17 882	1.00	11.16	SEG1
ATOM	55	HG1	GLN	5	-18.846	19.612	-17 008	1.00	11.36	SEG1
ATOM	56	HG2	GLN	5	-19.655	20.493	-18.302	1.00	11.17	SEG1
ATOM	57	CD	GLN	5	-17.944	21.499	-17.481	1.00	11.68	SEG1
ATOM	58	OE1	GLN	5	-17.092	21.465	-16.617	1.00	11.76	SEG1
ATOM	59	NE2	GLN	5	-18.222	22.627	-18.079	1.00	12.23	SEG1
ATOM	60	HE21	GLN	5	-18.910	22.655	-18.776	1.00	12.30	SEG1
ATOM	61	HE22	GLN	5	-17.740	23.443	-17.833	1.00	12.69	SEG1
ATOM	62	C	GLN	5	-19.665	17.702	-19.111	1.00	9.75	SEG1
ATOM	63	O	GLN	5	-20.496	18.080	-18.306	1.00	9.62	SEG1
ATOM	64	N	ASN	6	-19.460	16.426	-19.339	1.00	9.41	SEG1

ATOM	65	HN	ASN	6	-18.775	16.151	-19.981	1.00	9.70	SEG1
ATOM	66	CA	ASN	6	-20.257	15.396	-18.600	1.00	8.79	SEG1
ATOM	67	HA	ASN	6	-21.287	15.710	-18.535	1.00	9.04	SEG1
ATOM	68	CB	ASN	6	-20.161	14.093	-19.418	1.00	9.02	SEG1
ATOM	69	HB1	ASN	6	-20.676	14.225	-20.357	1.00	8.79	SEG1
ATOM	70	HB2	ASN	6	-20.631	13.293	-18.867	1.00	9.43	SEG1
ATOM	71	CG	ASN	6	-18.700	13.720	-19.695	1.00	9.37	SEG1
ATOM	72	OD1	ASN	6	-17.847	13.872	-18.845	1.00	9.72	SEG1
ATOM	73	ND2	ASN	6	-18.379	13.226	-20.863	1.00	9.56	SEG1
ATOM	74	HD21	ASN	6	-19.069	13.099	-21.547	1.00	9.44	SEG1
ATOM	75	HD22	ASN	6	-17.450	12.985	-21.056	1.00	9.96	SEG1
ATOM	76	C	ASN	6	-19.675	15.229	-17.193	1.00	8.00	SEG1
ATOM	77	O	ASN	6	-18.499	15.450	-16.975	1.00	7.88	SEG1
ATOM	78	N	GLY	7	-20.492	14.873	-16.233	1.00	7.69	SEG1
ATOM	79	HN	GLY	7	-21.441	14.724	-16.431	1.00	8.01	SEG1
ATOM	80	CA	GLY	7	-19.993	14.729	-14.831	1.00	7.15	SEG1
ATOM	81	HA1	GLY	7	-20.823	14.807	-14.147	1.00	7.30	SEG1
ATOM	82	HA2	GLY	7	-19.286	15.520	-14.625	1.00	7.43	SEG1
ATOM	83	C	GLY	7	-19.305	13.377	-14.636	1.00	6.36	SEG1
ATOM	84	O	GLY	7	-19.058	12.651	-15.579	1.00	6.40	SEG1
ATOM	85	N	HIS	8	-18.990	13.040	-13.407	1.00	5.93	SEG1
ATOM	86	HN	HIS	8	-19.199	13.649	-12.668	1.00	6.17	SEG1
ATOM	87	CA	HIS	8	-18.311	11.740	-13.127	1.00	5.39	SEG1
ATOM	88	HA	HIS	8	-18.677	10.972	-13.791	1.00	5.57	SEG1
ATOM	89	CB	HIS	8	-16.830	12.005	-13.398	1.00	5.92	SEG1
ATOM	90	HB1	HIS	8	-16.355	12.352	-12.492	1.00	6.12	SEG1
ATOM	91	HB2	HIS	8	-16.733	12.757	-14.166	1.00	6.23	SEG1
ATOM	92	CG	HIS	8	-16.170	10.733	-13.851	1.00	6.32	SEG1
ATOM	93	ND1	HIS	8	-16.762	9.885	-14.773	1.00	6.76	SEG1
ATOM	94	HD1	HIS	8	-17.627	10.024	-15.215	1.00	6.84	SEG1
ATOM	95	CD2	HIS	8	-14.976	10.147	-13.515	1.00	6.77	SEG1
ATOM	96	HD2	HIS	8	-14.259	10.552	-12.816	1.00	6.87	SEG1
ATOM	97	CE1	HIS	8	-15.933	8.842	-14.956	1.00	7.39	SEG1
ATOM	98	HE1	HIS	8	-16.140	8.014	-15.617	1.00	8.01	SEG1
ATOM	99	NE2	HIS	8	-14.828	8.952	-14.213	1.00	7.43	SEG1
ATOM	100	C	HIS	8	-18.520	11.331	-11.664	1.00	4.62	SEG1
ATOM	101	O	HIS	8	-18.996	12.104	-10.854	1.00	4.56	SEG1
ATOM	102	N	GLU	9	-18.163	10.118	-11.327	1.00	4.40	SEG1
ATOM	103	HN	GLU	9	-17.783	9.518	-12.002	1.00	4.79	SEG1
ATOM	104	CA	GLU	9	-18.332	9.637	-9.922	1.00	3.95	SEG1
ATOM	105	HA	GLU	9	-19.165	10.132	-9.449	1.00	4.17	SEG1
ATOM	106	CB	GLU	9	-18.618	8.140	-10.058	1.00	4.47	SEG1
ATOM	107	HB1	GLU	9	-18.580	7.675	-9.084	1.00	4.63	SEG1
ATOM	108	HB2	GLU	9	-17.877	7.689	-10.703	1.00	4.60	SEG1
ATOM	109	CG	GLU	9	-20.011	7.939	-10.661	1.00	5.14	SEG1
ATOM	110	HG1	GLU	9	-20.102	6.931	-11.038	1.00	5.23	SEG1
ATOM	111	HG2	GLU	9	-20.157	8.642	-11.469	1.00	5.30	SEG1
ATOM	112	CD	GLU	9	-21.069	8.175	-9.582	1.00	5.96	SEG1
ATOM	113	OE1	GLU	9	-22.112	8.718	-9.908	1.00	6.30	SEG1
ATOM	114	OE2	GLU	9	-20.819	7.806	-8.446	1.00	6.51	SEG1
ATOM	115	C	GLU	9	-17.043	9.872	-9.127	1.00	3.32	SEG1
ATOM	116	O	GLU	9	-15.955	9.639	-9.621	1.00	3.53	SEG1
ATOM	117	N	GLU	10	-17.155	10.329	-7.902	1.00	2.92	SEG1
ATOM	118	HN	GLU	10	-18.042	10.508	-7.525	1.00	3.15	SEG1
ATOM	119	CA	GLU	10	-15.930	10.572	-7.084	1.00	2.63	SEG1
ATOM	120	HA	GLU	10	-15.122	10.912	-7.713	1.00	2.97	SEG1
ATOM	121	CB	GLU	10	-16.306	11.667	-6.084	1.00	3.13	SEG1
ATOM	122	HB1	GLU	10	-15.459	11.879	-5.449	1.00	3.26	SEG1
ATOM	123	HB2	GLU	10	-17.134	11.333	-5.477	1.00	3.47	SEG1
ATOM	124	CG	GLU	10	-16.703	12.940	-6.840	1.00	3.83	SEG1
ATOM	125	HG1	GLU	10	-17.631	12.768	-7.365	1.00	4.16	SEG1
ATOM	126	HG2	GLU	10	-15.930	13.189	-7.552	1.00	4.02	SEG1
ATOM	127	CD	GLU	10	-16.888	14.107	-5.858	1.00	4.51	SEG1
ATOM	128	OE1	GLU	10	-16.595	13.936	-4.682	1.00	5.01	SEG1
ATOM	129	OE2	GLU	10	-17.319	15.159	-6.302	1.00	4.85	SEG1
ATOM	130	C	GLU	10	-15.531	9.290	-6.355	1.00	2.02	SEG1
ATOM	131	O	GLU	10	-16.296	8.732	-5.591	1.00	2.17	SEG1
ATOM	132	N	TRP	11	-14.339	8.818	-6.599	1.00	1.56	SEG1
ATOM	133	HN	TRP	11	-13.749	9.288	-7.225	1.00	1.73	SEG1
ATOM	134	CA	TRP	11	-13.868	7.567	-5.940	1.00	1.15	SEG1
ATOM	135	HA	TRP	11	-14.611	7.214	-5.241	1.00	1.26	SEG1
ATOM	136	CB	TRP	11	-13.737	6.567	-7.116	1.00	1.36	SEG1
ATOM	137	HB1	TRP	11	-13.492	7.113	-8.017	1.00	1.88	SEG1
ATOM	138	HB2	TRP	11	-14.682	6.065	-7.257	1.00	1.58	SEG1
ATOM	139	CG	TRP	11	-12.677	5.536	-6.862	1.00	1.30	SEG1
ATOM	140	CD1	TRP	11	-11.365	5.717	-7.112	1.00	2.28	SEG1
ATOM	141	HD1	TRP	11	-10.924	6.614	-7.517	1.00	3.09	SEG1

ATOM	146	CD2	TRP	11	-12.809	4.189	-6.326	1.00	0.69	SEG1
ATOM	147	NE1	TRP	11	-10.683	4.571	-6.764	1.00	2.24	SEG1
ATOM	148	HE1	TRP	11	-9.724	4.445	-6.846	1.00	2.95	SEG1
ATOM	149	CE2	TRP	11	-11.525	3.600	-6.274	1.00	1.19	SEG1
ATOM	150	CE3	TRP	11	-13.901	3.430	-5.884	1.00	1.24	SEG1
ATOM	151	HE3	TRP	11	-14.889	3.854	-5.910	1.00	1.82	SEG1
ATOM	152	CZ2	TRP	11	-11.331	2.304	-5.801	1.00	1.05	SEG1
ATOM	153	HZ2	TRP	11	-10.339	1.878	-5.771	1.00	1.59	SEG1
ATOM	154	CZ3	TRP	11	-13.712	2.125	-5.406	1.00	1.72	SEG1
ATOM	155	HZ3	TRP	11	-14.560	1.550	-5.068	1.00	2.64	SEG1
ATOM	156	CH2	TRP	11	-12.428	1.563	-5.365	1.00	1.25	SEG1
ATOM	157	HH2	TRP	11	-12.289	0.559	-4.995	1.00	1.70	SEG1
ATOM	158	C	TRP	11	-12.535	7.832	-5.212	1.00	1.07	SEG1
ATOM	159	O	TRP	11	-11.569	8.269	-5.807	1.00	1.43	SEG1
ATOM	160	N	VAL	12	-12.488	7.557	-3.933	1.00	0.90	SEG1
ATOM	161	HN	VAL	12	-13.283	7.199	-3.483	1.00	1.07	SEG1
ATOM	162	CA	VAL	12	-11.230	7.774	-3.153	1.00	0.81	SEG1
ATOM	163	HA	VAL	12	-10.374	7.754	-3.809	1.00	0.90	SEG1
ATOM	164	CB	VAL	12	-11.366	9.163	-2.513	1.00	1.11	SEG1
ATOM	165	HB	VAL	12	-10.500	9.347	-1.893	1.00	1.25	SEG1
ATOM	166	CG1	VAL	12	-11.445	10.238	-3.600	1.00	1.39	SEG1
ATOM	167	HG11	VAL	12	-11.487	11.213	-3.136	1.00	1.88	SEG1
ATOM	168	HG12	VAL	12	-12.332	10.087	-4.195	1.00	1.88	SEG1
ATOM	169	HG13	VAL	12	-10.571	10.178	-4.231	1.00	1.65	SEG1
ATOM	170	CG2	VAL	12	-12.632	9.223	-1.651	1.00	1.61	SEG1
ATOM	171	HG21	VAL	12	-12.669	10.169	-1.132	1.00	2.15	SEG1
ATOM	172	HG22	VAL	12	-12.616	8.419	-0.931	1.00	1.97	SEG1
ATOM	173	HG23	VAL	12	-13.504	9.125	-2.281	1.00	1.99	SEG1
ATOM	174	C	VAL	12	-11.095	6.703	-2.063	1.00	0.82	SEG1
ATOM	175	O	VAL	12	-10.758	7.001	-0.932	1.00	1.69	SEG1
ATOM	176	N	GLY	13	-11.375	5.466	-2.388	1.00	0.62	SEG1
ATOM	177	HN	GLY	13	-11.660	5.252	-3.302	1.00	1.15	SEG1
ATOM	178	CA	GLY	13	-11.287	4.378	-1.367	1.00	0.89	SEG1
ATOM	179	HA1	GLY	13	-11.623	3.451	-1.805	1.00	1.13	SEG1
ATOM	180	HA2	GLY	13	-11.922	4.626	-0.529	1.00	1.25	SEG1
ATOM	181	C	GLY	13	-9.848	4.206	-0.874	1.00	0.68	SEG1
ATOM	182	O	GLY	13	-8.900	4.566	-1.544	1.00	0.70	SEG1
ATOM	183	N	SER	14	-9.692	3.645	0.299	1.00	0.57	SEG1
ATOM	184	HN	SER	14	-10.481	3.363	0.809	1.00	0.64	SEG1
ATOM	185	CA	SER	14	-8.330	3.421	0.867	1.00	0.46	SEG1
ATOM	186	HA	SER	14	-7.570	3.656	0.139	1.00	0.47	SEG1
ATOM	187	CB	SER	14	-8.235	4.373	2.057	1.00	0.63	SEG1
ATOM	188	HB1	SER	14	-8.473	5.378	1.733	1.00	1.22	SEG1
ATOM	189	HB2	SER	14	-7.235	4.356	2.457	1.00	1.22	SEG1
ATOM	190	OG	SER	14	-9.150	3.958	3.063	1.00	1.27	SEG1
ATOM	191	HG	SER	14	-8.910	4.396	3.882	1.00	1.63	SEG1
ATOM	192	C	SER	14	-8.206	1.967	1.331	1.00	0.35	SEG1
ATOM	193	O	SER	14	-9.198	1.309	1.587	1.00	0.36	SEG1
ATOM	194	N	ALA	15	-7.004	1.456	1.433	1.00	0.31	SEG1
ATOM	195	HN	ALA	15	-6.220	2.001	1.215	1.00	0.37	SEG1
ATOM	196	CA	ALA	15	-6.830	0.036	1.869	1.00	0.26	SEG1
ATOM	197	HA	ALA	15	-7.719	-0.320	2.363	1.00	0.26	SEG1
ATOM	198	CB	ALA	15	-6.611	-0.741	0.573	1.00	0.33	SEG1
ATOM	199	HB1	ALA	15	-7.409	-0.518	-0.120	1.00	1.05	SEG1
ATOM	200	HB2	ALA	15	-6.603	-1.800	0.785	1.00	1.09	SEG1
ATOM	201	HB3	ALA	15	-5.664	-0.454	0.138	1.00	1.01	SEG1
ATOM	202	C	ALA	15	-5.612	-0.112	2.785	1.00	0.24	SEG1
ATOM	203	O	ALA	15	-4.700	0.693	2.759	1.00	0.25	SEG1
ATOM	204	N	TYR	16	-5.590	-1.151	3.584	1.00	0.24	SEG1
ATOM	205	HN	TYR	16	-6.336	-1.788	3.574	1.00	0.25	SEG1
ATOM	206	CA	TYR	16	-4.431	-1.381	4.498	1.00	0.24	SEG1
ATOM	207	HA	TYR	16	-3.769	-0.529	4.495	1.00	0.25	SEG1
ATOM	208	CB	TYR	16	-5.045	-1.561	5.886	1.00	0.28	SEG1
ATOM	209	HB1	TYR	16	-4.302	-1.960	6.560	1.00	0.30	SEG1
ATOM	210	HB2	TYR	16	-5.880	-2.244	5.825	1.00	0.29	SEG1
ATOM	211	CG	TYR	16	-5.524	-0.224	6.401	1.00	0.30	SEG1
ATOM	212	CD1	TYR	16	-6.885	0.100	6.365	1.00	1.20	SEG1
ATOM	213	HD1	TYR	16	-7.597	-0.607	5.967	1.00	2.11	SEG1
ATOM	214	CD2	TYR	16	-4.601	0.693	6.916	1.00	1.30	SEG1
ATOM	215	HD2	TYR	16	-3.550	0.442	6.943	1.00	2.22	SEG1
ATOM	216	CE1	TYR	16	-7.322	1.340	6.845	1.00	1.20	SEG1
ATOM	217	HE1	TYR	16	-8.372	1.591	6.818	1.00	2.12	SEG1
ATOM	218	CE2	TYR	16	-5.036	1.933	7.395	1.00	1.32	SEG1
ATOM	219	HE2	TYR	16	-4.323	2.639	7.792	1.00	2.24	SEG1
ATOM	220	CZ	TYR	16	-6.397	2.259	7.361	1.00	0.37	SEG1
ATOM	221	OH	TYR	16	-6.826	3.483	7.839	1.00	0.42	SEG1
ATOM	222	HH	TYR	16	-7.602	3.747	7.339	1.00	1.02	SEG1

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ATOM    219  C    TYR   16      -3.678  -2.645   4.068  1.00  0.23      SEG1
ATOM    220  O    TYR   16      -4.273  -3.675   3.812  1.00  0.25      SEG1
ATOM    221  N    LEU   17      -2.377  -2.565   3.978  1.00  0.23      SEG1
ATOM    222  HN   LEU   17      -1.930  -1.721   4.183  1.00  0.23      SEG1
ATOM    223  CA   LEU   17      -1.570  -3.747   3.551  1.00  0.23      SEG1
ATOM    224  HA   LEU   17      -2.217  -4.569   3.299  1.00  0.24      SEG1
ATOM    225  CB   LEU   17      -0.815  -3.278   2.306  1.00  0.25      SEG1
ATOM    226  HB1  LEU   17       0.169  -3.723   2.294  1.00  0.26      SEG1
ATOM    227  HB2  LEU   17      -0.724  -2.202   2.326  1.00  0.25      SEG1
ATOM    228  CG   LEU   17      -1.577  -3.703   1.051  1.00  0.25      SEG1
ATOM    229  HG   LEU   17      -1.713  -4.777   1.063  1.00  0.26      SEG1
ATOM    230  CD1  LEU   17      -2.943  -3.009   1.014  1.00  0.25      SEG1
ATOM    231  HD11 LEU   17      -3.272  -2.919  -0.010  1.00  1.04      SEG1
ATOM    232  HD12 LEU   17      -2.859  -2.026   1.453  1.00  1.04      SEG1
ATOM    233  HD13 LEU   17      -3.659  -3.593   1.573  1.00  1.03      SEG1
ATOM    234  CD2  LEU   17      -0.775  -3.299  -0.188  1.00  0.28      SEG1
ATOM    235  HD21 LEU   17      -1.452  -3.080  -0.999  1.00  1.03      SEG1
ATOM    236  HD22 LEU   17      -0.120  -4.109  -0.473  1.00  1.07      SEG1
ATOM    237  HD23 LEU   17      -0.187  -2.421   0.037  1.00  1.01      SEG1
ATOM    238  C    LEU   17      -0.587  -4.159   4.646  1.00  0.24      SEG1
ATOM    239  O    LEU   17      -0.008  -3.327   5.318  1.00  0.24      SEG1
ATOM    240  N    PHE   18      -0.397  -5.443   4.826  1.00  0.26      SEG1
ATOM    241  HN   PHE   18      -0.877  -6.090   4.269  1.00  0.28      SEG1
ATOM    242  CA   PHE   18       0.549  -5.923   5.878  1.00  0.28      SEG1
ATOM    243  HA   PHE   18       0.825  -5.116   6.536  1.00  0.26      SEG1
ATOM    244  CB   PHE   18      -0.221  -6.998   6.657  1.00  0.30      SEG1
ATOM    245  HB1  PHE   18       0.392  -7.355   7.471  1.00  0.31      SEG1
ATOM    246  HB2  PHE   18      -0.447  -7.820   5.996  1.00  0.31      SEG1
ATOM    247  CG   PHE   18      -1.514  -6.433   7.214  1.00  0.29      SEG1
ATOM    248  CD1  PHE   18      -1.550  -5.139   7.750  1.00  1.21      SEG1
ATOM    249  HD1  PHE   18      -0.652  -4.540   7.764  1.00  2.13      SEG1
ATOM    250  CD2  PHE   18      -2.678  -7.210   7.191  1.00  1.27      SEG1
ATOM    251  HD2  PHE   18      -2.652  -8.208   6.779  1.00  2.18      SEG1
ATOM    252  CE1  PHE   18      -2.745  -4.624   8.261  1.00  1.20      SEG1
ATOM    253  HE1  PHE   18      -2.770  -3.626   8.674  1.00  2.11      SEG1
ATOM    254  CE2  PHE   18      -3.874  -6.695   7.703  1.00  1.29      SEG1
ATOM    255  HE2  PHE   18      -4.772  -7.296   7.685  1.00  2.22      SEG1
ATOM    256  CZ   PHE   18      -3.907  -5.402   8.238  1.00  0.32      SEG1
ATOM    257  HZ   PHE   18      -4.828  -5.004   8.631  1.00  0.35      SEG1
ATOM    258  C    PHE   18       1.787  -6.535   5.226  1.00  0.30      SEG1
ATOM    259  O    PHE   18       1.681  -7.379   4.360  1.00  0.33      SEG1
ATOM    260  N    VAL   19       2.956  -6.123   5.641  1.00  0.29      SEG1
ATOM    261  HN   VAL   19       3.013  -5.443   6.346  1.00  0.27      SEG1
ATOM    262  CA   VAL   19       4.206  -6.689   5.048  1.00  0.32      SEG1
ATOM    263  HA   VAL   19       3.970  -7.353   4.230  1.00  0.35      SEG1
ATOM    264  CB   VAL   19       4.993  -5.478   4.535  1.00  0.33      SEG1
ATOM    265  HB   VAL   19       5.223  -4.826   5.367  1.00  0.31      SEG1
ATOM    266  CG1  VAL   19       6.300  -5.953   3.891  1.00  0.37      SEG1
ATOM    267  HG11 VAL   19       6.080  -6.458   2.962  1.00  1.07      SEG1
ATOM    268  HG12 VAL   19       6.804  -6.635   4.560  1.00  1.07      SEG1
ATOM    269  HG13 VAL   19       6.936  -5.102   3.696  1.00  1.08      SEG1
ATOM    270  CG2  VAL   19       4.157  -4.712   3.500  1.00  0.36      SEG1
ATOM    271  HG21 VAL   19       4.520  -4.930   2.507  1.00  1.03      SEG1
ATOM    272  HG22 VAL   19       4.240  -3.652   3.687  1.00  1.07      SEG1
ATOM    273  HG23 VAL   19       3.121  -5.010   3.578  1.00  1.13      SEG1
ATOM    274  C    VAL   19       5.001  -7.426   6.128  1.00  0.32      SEG1
ATOM    275  O    VAL   19       5.376  -6.844   7.131  1.00  0.31      SEG1
ATOM    276  N    GLU   20       5.260  -8.698   5.937  1.00  0.36      SEG1
ATOM    277  HN   GLU   20       4.945  -9.149   5.122  1.00  0.38      SEG1
ATOM    278  CA   GLU   20       6.035  -9.459   6.969  1.00  0.38      SEG1
ATOM    279  HA   GLU   20       6.640  -8.784   7.553  1.00  0.38      SEG1
ATOM    280  CB   GLU   20       4.968 -10.101   7.858  1.00  0.41      SEG1
ATOM    281  HB1  GLU   20       4.576 -10.981   7.372  1.00  0.96      SEG1
ATOM    282  HB2  GLU   20       4.167  -9.393   8.025  1.00  0.89      SEG1
ATOM    283  CG   GLU   20       5.581 -10.495   9.206  1.00  1.26      SEG1
ATOM    284  HG1  GLU   20       5.966  -9.612   9.693  1.00  1.79      SEG1
ATOM    285  HG2  GLU   20       6.387 -11.193   9.045  1.00  1.83      SEG1
ATOM    286  CD   GLU   20       4.515 -11.141  10.106  1.00  1.26      SEG1
ATOM    287  OE1  GLU   20       4.890 -11.676  11.136  1.00  1.44      SEG1
ATOM    288  OE2  GLU   20       3.343 -11.084   9.758  1.00  1.82      SEG1
ATOM    289  C    GLU   20       6.920 -10.527   6.305  1.00  0.41      SEG1
ATOM    290  O    GLU   20       6.590 -11.059   5.264  1.00  0.48      SEG1
ATOM    291  N    SER   21       8.045 -10.834   6.906  1.00  0.42      SEG1
ATOM    292  HN   SER   21       8.286 -10.383   7.743  1.00  0.44      SEG1
ATOM    293  CA   SER   21       8.971 -11.860   6.324  1.00  0.48      SEG1
ATOM    294  HA   SER   21       8.796 -11.968   5.265  1.00  0.50      SEG1
ATOM    295  CB   SER   21      10.372 -11.292   6.554  1.00  0.52      SEG1
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ATOM    296  HB1 SER   21      10.474 -10.360   6.014  1 00  0.55      SEG1
ATOM    297  HB2 SER   21      11.109 -11 992   6.197  1 00  0.54      SEG1
ATOM    298  OG  SER   21      10.572 -11.073   7.945  1 00  0.62      SEG1
ATOM    299  HG  SER   21      10.391 -11 893   8.405  1 00  1.01      SEG1
ATOM    300  C   SER   21       8.820 -13 220   7.030  1 00  0.56      SEG1
ATOM    301  O   SER   21       9.613 -14 118   6.826  1 00  1.22      SEG1
ATOM    302  N   SER   22       7.817 -13 378   7.663  1 00  0.86      SEG1
ATOM    303  HN  SER   22       7.193 -12 643   8.016  1 00  1.44      SEG1
ATOM    304  CA  SER   22       7.615 -14 675   8.592  1 00  0.95      SEG1
ATOM    305  HA  SER   22       6.749 -14 607   9.232  1 00  1.07      SEG1
ATOM    306  CB  SER   22       7.374 -15 735   7.512  1 00  1.04      SEG1
ATOM    307  HB1 SER   22       8 297 -16.265   7.318  1 00  1.13      SEG1
ATOM    308  HB2 SER   22       7 039 -15 260   6.605  1 00  1.30      SEG1
ATOM    309  OG  SER   22       6.376 -16 643   7.960  1 00  1.42      SEG1
ATOM    310  HG  SER   22       6 500 -17 474   7.495  1 00  1.68      SEG1
ATOM    311  C   SER   22       8.855 -15 024   9.424  1 00  0.91      SEG1
ATOM    312  O   SER   22       9.120 -16.180   9.698  1 00  0.94      SEG1
ATOM    313  N   LEU   23       9.604 -14 033   9.841  1 00  0.96      SEG1
ATOM    314  HN  LEU   23       9 362 -13 111   9.617  1 00  1.04      SEG1
ATOM    315  CA  LEU   23      10.819 -14.303  10.673  1 00  1.03      SEG1
ATOM    316  HA  LEU   23      10 973 -15 365  10.782  1.00  1.20      SEG1
ATOM    317  CB  LEU   23      11 986 -13 678   9.904  1.00  0.94      SEG1
ATOM    318  HB1 LEU   23      12 861 -13 658  10.537  1.00  1.14      SEG1
ATOM    319  HB2 LEU   23      11 729 -12.670   9.616  1 00  1.11      SEG1
ATOM    320  CG  LEU   23      12.286 -14 508   8.654  1 00  1.17      SEG1
ATOM    321  HG  LEU   23      11.371 -14 691   8.112  1 00  1.54      SEG1
ATOM    322  CD1 LEU   23      13.270 -13.748   7 762  1 00  1.51      SEG1
ATOM    323  HD11 LEU  23      12.805 -12 843   7 401  1 00  1.96      SEG1
ATOM    324  HD12 LEU  23      13 547 -14.368   6 921  1.00  2.02      SEG1
ATOM    325  HD13 LEU  23      14.153 -13.497   8 331  1 00  1.83      SEG1
ATOM    326   CD2 LEU  23      12.914 -15.839   9 073  1.00  1.52      SEG1
ATOM    327  HD21 LEU  23      13.458 -16.258   8 240  1 00  1.93      SEG1
ATOM    328  HD22 LEU  23      12.138 -16 524   9 378  1 00  2.01      SEG1
ATOM    329  HD23 LEU  23      13.592 -15 672   9.898  1.00  1.88      SEG1
ATOM    330  C   LEU   23      10.668 -13 638  12 043  1.00  1.14      SEG1
ATOM    331  O   LEU   23      10.726 -12.430  12 165  1.00  1.44      SEG1
ATOM    332  N   ASP   24      10 479 -14.422  13 073  1.00  1.17      SEG1
ATOM    333  HN  ASP   24      10 438 -15 393  12.943  1 00  1.26      SEG1
ATOM    334  CA  ASP   24      10.324 -13 844  14.444  1.00  1.33      SEG1
ATOM    335  HA  ASP   24       9 561 -13 082  14.444  1.00  1.51      SEG1
ATOM    336  CB  ASP   24       9 887 -15.016  15 327  1.00  1.68      SEG1
ATOM    337  HB1 ASP   24       9 925 -14.718  16.365  1.00  1.96      SEG1
ATOM    338  HB2 ASP   24      10.552 -15.851  15.169  1.00  1.96      SEG1
ATOM    339  CG  ASP   24       8.455 -15.430  14.972  1 00  1.87      SEG1
ATOM    340  OD1 ASP   24       8 137 -16 594  15 151  1.00  2.18      SEG1
ATOM    341  OD2 ASP   24       7.700 -14.577  14 532  1.00  2.42      SEG1
ATOM    342  C   ASP   24      11.654 -13.263  14.943  1 00  1.21      SEG1
ATOM    343  O   ASP   24      11 680 -12 453  15 850  1 00  1.73      SEG1
ATOM    344  N   LYS   25      12 757 -13 677  14 367  1.00  1.40      SEG1
ATOM    345  HN  LYS   25      12.714 -14.337  13 644  1.00  1.84      SEG1
ATOM    346  CA  LYS   25      14 086 -13 157  14 816  1.00  1.71      SEG1
ATOM    347  HA  LYS   25      14.109 -13 063  15.889  1.00  1.98      SEG1
ATOM    348  CB  LYS   25      15 096 -14.216  14 368  1.00  2.08      SEG1
ATOM    349  HB1 LYS   25      16.098 -13 842  14 519  1 00  2.36      SEG1
ATOM    350  HB2 LYS   25      14 947 -14 430  13 320  1.00  1.98      SEG1
ATOM    351  CG  LYS   25      14.905 -15 498  15 181  1.00  2.37      SEG1
ATOM    352  HG1 LYS   25      13.906 -15.877  15 028  1.00  2.26      SEG1
ATOM    353  HG2 LYS   25      15.054 -15 286  16 230  1 00  2.63      SEG1
ATOM    354  CD  LYS   25      15.922 -16 545  14 720  1.00  2.85      SEG1
ATOM    355  HD1 LYS   25      16.921 -16 166  14 874  1.00  3.30      SEG1
ATOM    356  HD2 LYS   25      15.774 -16 753  13 670  1.00  2.96      SEG1
ATOM    357  CE  LYS   25      15.738 -17.833  15.527  1.00  3.10      SEG1
ATOM    358  HE1 LYS   25      14.780 -18.279  15.310  1.00  3.12      SEG1
ATOM    359  HE2 LYS   25      15.831 -17 629  16.584  1.00  3.39      SEG1
ATOM    360  NZ  LYS   25      16.834 -18 732  15.069  1.00  3.59      SEG1
ATOM    361  HZ1 LYS   25      17.748 -18.362  15.398  1.00  3.96      SEG1
ATOM    362  HZ2 LYS   25      16 833 -18 778  14.029  1.00  3.70      SEG1
ATOM    363  HZ3 LYS   25      16 688 -19 684  15.458  1.00  3.91      SEG1
ATOM    364  C   LYS   25      14.414 -11 811  14.152  1.00  1.50      SEG1
ATOM    365  O   LYS   25      15 402 -11 183  14.489  1.00  1.60      SEG1
ATOM    366  N   VAL   26      13.614 -11 362  13.211  1.00  1.35      SEG1
ATOM    367  HN  VAL   26      12.826 -11 876  12.943  1.00  1.43      SEG1
ATOM    368  CA  VAL   26      13 912 -10.062  12.538  1.00  1.21      SEG1
ATOM    369  HA  VAL   26      14.886  -9 702  12.832  1.00  1.29      SEG1
ATOM    370  CB  VAL   26      13.903 -10 380  11.037  1.00  1.42      SEG1
ATOM    371  HB  VAL   26      12.932 -10 761  10.756  1 00  1.62      SEG1
ATOM    372  CG1 VAL   26      14.200  -9.108  10.237  1 00  1.89      SEG1
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ATOM	373	HG11	VAL	26	13.971	-9.278	9.195	1.00	2.27	SEG1
ATOM	374	HG12	VAL	26	15.244	-8.854	10.340	1.00	2.38	SEG1
ATOM	375	HG13	VAL	26	13.594	-8.297	10.611	1.00	2.31	SEG1
ATOM	376	CG2	VAL	26	14.973	-11.431	10.728	1.00	2.08	SEG1
ATOM	377	HG21	VAL	26	15.828	-11.275	11.370	1.00	2.45	SEG1
ATOM	378	HG22	VAL	26	15.278	-11.342	9.696	1.00	2.51	SEG1
ATOM	379	HG23	VAL	26	14.569	-12.418	10.900	1.00	2.57	SEG1
ATOM	380	C	VAL	26	12.836	-9.026	12.877	1.00	1.02	SEG1
ATOM	381	O	VAL	26	11.670	-9.210	12.577	1.00	1.13	SEG1
ATOM	382	N	VAL	27	13.225	-7.935	13.484	1.00	0.99	SEG1
ATOM	383	HN	VAL	27	14.171	-7.811	13.703	1.00	1.14	SEG1
ATOM	384	CA	VAL	27	12.232	-6.873	13.827	1.00	1.00	SEG1
ATOM	385	HA	VAL	27	11.271	-7.317	14.042	1.00	1.11	SEG1
ATOM	386	CB	VAL	27	12.783	-6.182	15.085	1.00	1.28	SEG1
ATOM	387	HB	VAL	27	12.091	-5.413	15.399	1.00	1.71	SEG1
ATOM	388	CG1	VAL	27	12.928	-7.213	16.209	1.00	1.74	SEG1
ATOM	389	HG11	VAL	27	11.949	-7.521	16.544	1.00	2.16	SEG1
ATOM	390	HG12	VAL	27	13.470	-6.773	17.033	1.00	2.26	SEG1
ATOM	391	HG13	VAL	27	13.469	-8.072	15.841	1.00	2.14	SEG1
ATOM	392	CG2	VAL	27	14.154	-5.547	14.792	1.00	1.90	SEG1
ATOM	393	HG21	VAL	27	14.856	-5.818	15.568	1.00	2.40	SEG1
ATOM	394	HG22	VAL	27	14.051	-4.473	14.763	1.00	2.42	SEG1
ATOM	395	HG23	VAL	27	14.521	-5.896	13.838	1.00	2.26	SEG1
ATOM	396	C	VAL	27	12.112	-5.891	12.655	1.00	0.83	SEG1
ATOM	397	O	VAL	27	12.578	-4.769	12.717	1.00	0.80	SEG1
ATOM	398	N	LEU	28	11.497	-6.319	11.581	1.00	0.77	SEG1
ATOM	399	HN	LEU	28	11.142	-7.236	11.559	1.00	0.85	SEG1
ATOM	400	CA	LEU	28	11.353	-5.429	10.385	1.00	0.65	SEG1
ATOM	401	HA	LEU	28	12.323	-5.176	9.987	1.00	0.73	SEG1
ATOM	402	CB	LEU	28	10.571	-6.248	9.359	1.00	0.66	SEG1
ATOM	403	HB1	LEU	28	10.277	-5.610	8.539	1.00	0.81	SEG1
ATOM	404	HB2	LEU	28	9.689	-6.660	9.829	1.00	0.72	SEG1
ATOM	405	CG	LEU	28	11.445	-7.384	8.832	1.00	1.04	SEG1
ATOM	406	HG	LEU	28	11.877	-7.921	9.664	1.00	1.45	SEG1
ATOM	407	CD1	LEU	28	10.588	-8.336	8.001	1.00	1.13	SEG1
ATOM	408	HD11	LEU	28	9.882	-7.766	7.415	1.00	1.40	SEG1
ATOM	409	HD12	LEU	28	10.052	-9.005	8.658	1.00	1.73	SEG1
ATOM	410	HD13	LEU	28	11.222	-8.910	7.342	1.00	1.54	SEG1
ATOM	411	CD2	LEU	28	12.560	-6.805	7.959	1.00	1.38	SEG1
ATOM	412	HD21	LEU	28	12.188	-5.943	7.425	1.00	1.93	SEG1
ATOM	413	HD22	LEU	28	12.889	-7.553	7.253	1.00	1.66	SEG1
ATOM	414	HD23	LEU	28	13.391	-6.510	8.584	1.00	1.78	SEG1
ATOM	415	C	LEU	28	10.576	-4.160	10.737	1.00	0.52	SEG1
ATOM	416	O	LEU	28	10.902	-3.082	10.279	1.00	0.49	SEG1
ATOM	417	N	SER	29	9.547	-4.279	11.537	1.00	0.53	SEG1
ATOM	418	HN	SER	29	9.302	-5.163	11.885	1.00	0.61	SEG1
ATOM	419	CA	SER	29	8.735	-3.075	11.909	1.00	0.50	SEG1
ATOM	420	HA	SER	29	8.245	-2.669	11.037	1.00	0.45	SEG1
ATOM	421	CB	SER	29	7.690	-3.587	12.903	1.00	0.64	SEG1
ATOM	422	HB1	SER	29	7.195	-4.456	12.489	1.00	0.68	SEG1
ATOM	423	HB2	SER	29	6.961	-2.817	13.090	1.00	0.69	SEG1
ATOM	424	OG	SER	29	8.332	-3.930	14.125	1.00	0.74	SEG1
ATOM	425	HG	SER	29	7.660	-4.234	14.739	1.00	1.18	SEG1
ATOM	426	C	SER	29	9.622	-2.014	12.569	1.00	0.51	SEG1
ATOM	427	O	SER	29	9.388	-0.827	12.436	1.00	0.47	SEG1
ATOM	428	N	ASP	30	10.640	-2.436	13.274	1.00	0.61	SEG1
ATOM	429	HN	ASP	30	10.805	-3.399	13.361	1.00	0.66	SEG1
ATOM	430	CA	ASP	30	11.555	-1.459	13.946	1.00	0.70	SEG1
ATOM	431	HA	ASP	30	11.012	-0.874	14.672	1.00	0.74	SEG1
ATOM	432	CB	ASP	30	12.614	-2.315	14.651	1.00	0.86	SEG1
ATOM	433	HB1	ASP	30	13.205	-2.833	13.911	1.00	1.25	SEG1
ATOM	434	HB2	ASP	30	12.123	-3.037	15.288	1.00	0.89	SEG1
ATOM	435	CG	ASP	30	13.531	-1.426	15.500	1.00	1.76	SEG1
ATOM	436	OD1	ASP	30	13.699	-0.267	15.156	1.00	2.44	SEG1
ATOM	437	OD2	ASP	30	14.049	-1.922	16.488	1.00	2.38	SEG1
ATOM	438	C	ASP	30	12.203	-0.543	12.901	1.00	0.66	SEG1
ATOM	439	O	ASP	30	12.366	0.643	13.120	1.00	0.69	SEG1
ATOM	440	N	ALA	31	12.580	-1.089	11.774	1.00	0.65	SEG1
ATOM	441	HN	ALA	31	12.442	-2.049	11.629	1.00	0.64	SEG1
ATOM	442	CA	ALA	31	13.229	-0.259	10.710	1.00	0.69	SEG1
ATOM	443	HA	ALA	31	14.158	0.154	11.072	1.00	0.81	SEG1
ATOM	444	CB	ALA	31	13.506	-1.226	9.556	1.00	0.73	SEG1
ATOM	445	HB1	ALA	31	13.622	-2.227	9.945	1.00	1.33	SEG1
ATOM	446	HB2	ALA	31	14.413	-0.930	9.048	1.00	1.15	SEG1
ATOM	447	HB3	ALA	31	12.681	-1.203	8.860	1.00	1.27	SEG1
ATOM	448	C	ALA	31	12.290	0.862	10.254	1.00	0.59	SEG1
ATOM	449	O	ALA	31	12.716	1.974	10.014	1.00	0.66	SEG1

ATOM	450	N	TYR	32	11.018	0.584	10.133	1.00	0.47	SEG1
ATOM	451	HN	TYR	32	10.692	-0.328	10.330	1.00	0.45	SEG1
ATOM	452	CA	TYR	32	10.059	1.640	9.690	1.00	0.41	SEG1
ATOM	453	HA	TYR	32	10.466	2.199	8.854	1.00	0.46	SEG1
ATOM	454	CB	TYR	32	8.803	0.884	9.250	1.00	0.38	SEG1
ATOM	455	HB1	TYR	32	8.056	1.586	8.915	1.00	0.40	SEG1
ATOM	456	HB2	TYR	32	8.416	0.316	10.084	1.00	0.39	SEG1
ATOM	457	CG	TYR	32	9.152	-0.058	8.119	1.00	0.40	SEG1
ATOM	458	CD1	TYR	32	9.232	0.419	6.805	1.00	1.24	SEG1
ATOM	459	HD1	TYR	32	9.041	1.462	6.597	1.00	2.11	SEG1
ATOM	460	CD2	TYR	32	9.399	-1.410	8.388	1.00	1.23	SEG1
ATOM	461	HD2	TYR	32	9.334	-1.778	9.400	1.00	2.09	SEG1
ATOM	462	CE1	TYR	32	9.560	-0.456	5.762	1.00	1.25	SEG1
ATOM	463	HE1	TYR	32	9.622	-0.089	4.749	1.00	2.11	SEG1
ATOM	464	CE2	TYR	32	9.727	-2.283	7.345	1.00	1.26	SEG1
ATOM	465	HE2	TYR	32	9.918	-3.326	7.553	1.00	2.13	SEG1
ATOM	466	CZ	TYR	32	9.808	-1.806	6.031	1.00	0.49	SEG1
ATOM	467	OH	TYR	32	10.132	-2.668	5.002	1.00	0.55	SEG1
ATOM	468	HH	TYR	32	9.706	-3.511	5.174	1.00	1.03	SEG1
ATOM	469	C	TYR	32	9.734	2.605	10.847	1.00	0.40	SEG1
ATOM	470	O	TYR	32	9.132	3.642	10.644	1.00	0.42	SEG1
ATOM	471	N	ALA	33	10.123	2.271	12.057	1.00	0.43	SEG1
ATOM	472	HN	ALA	33	10.604	1.430	12.202	1.00	0.47	SEG1
ATOM	473	CA	ALA	33	9.832	3.167	13.224	1.00	0.46	SEG1
ATOM	474	HA	ALA	33	8.769	3.274	13.357	1.00	0.50	SEG1
ATOM	475	CB	ALA	33	10.438	2.455	14.435	1.00	0.54	SEG1
ATOM	476	HB1	ALA	33	11.504	2.351	14.294	1.00	1.26	SEG1
ATOM	477	HB2	ALA	33	9.993	1.476	14.538	1.00	1.17	SEG1
ATOM	478	HB3	ALA	33	10.247	3.033	15.327	1.00	0.97	SEG1
ATOM	479	C	ALA	33	10.485	4.541	13.037	1.00	0.41	SEG1
ATOM	480	O	ALA	33	9.906	5.560	13.364	1.00	0.44	SEG1
ATOM	481	N	HIS	34	11.687	4.572	12.526	1.00	0.39	SEG1
ATOM	482	HN	HIS	34	12.130	3.733	12.280	1.00	0.41	SEG1
ATOM	483	CA	HIS	34	12.392	5.880	12.327	1.00	0.39	SEG1
ATOM	484	HA	HIS	34	12.419	6.436	13.251	1.00	0.44	SEG1
ATOM	485	CB	HIS	34	13.814	5.502	11.904	1.00	0.43	SEG1
ATOM	486	HB1	HIS	34	13.885	5.515	10.827	1.00	0.43	SEG1
ATOM	487	HB2	HIS	34	14.043	4.512	12.269	1.00	0.46	SEG1
ATOM	488	CG	HIS	34	14.795	6.485	12.483	1.00	0.52	SEG1
ATOM	489	ND1	HIS	34	15.735	7.139	11.702	1.00	0.57	SEG1
ATOM	490	HD1	HIS	34	15.854	7.041	10.735	1.00	0.64	SEG1
ATOM	491	CD2	HIS	34	14.998	6.930	13.766	1.00	0.70	SEG1
ATOM	492	HD2	HIS	34	14.430	6.617	14.630	1.00	0.86	SEG1
ATOM	493	CE1	HIS	34	16.454	7.935	12.515	1.00	0.66	SEG1
ATOM	494	HE1	HIS	34	17.263	8.568	12.183	1.00	0.73	SEG1
ATOM	495	NE2	HIS	34	16.045	7.846	13.784	1.00	0.75	SEG1
ATOM	496	C	HIS	34	11.697	6.701	11.227	1.00	0.37	SEG1
ATOM	497	O	HIS	34	11.149	6.139	10.300	1.00	0.35	SEG1
ATOM	498	N	PRO	35	11.734	8.013	11.362	1.00	0.42	SEG1
ATOM	499	CA	PRO	35	11.085	8.890	10.355	1.00	0.44	SEG1
ATOM	500	HA	PRO	35	10.074	8.566	10.165	1.00	0.44	SEG1
ATOM	501	CB	PRO	35	11.075	10.263	11.021	1.00	0.55	SEG1
ATOM	502	HB1	PRO	35	10.140	10.425	11.535	1.00	0.59	SEG1
ATOM	503	HB2	PRO	35	11.240	11.038	10.285	1.00	0.59	SEG1
ATOM	504	CG	PRO	35	12.199	10.228	12.005	1.00	0.58	SEG1
ATOM	505	HG1	PRO	35	11.959	10.841	12.861	1.00	0.65	SEG1
ATOM	506	HG2	PRO	35	13.107	10.583	11.538	1.00	0.61	SEG1
ATOM	507	CD	PRO	35	12.366	8.795	12.440	1.00	0.49	SEG1
ATOM	508	HD2	PRO	35	13.415	8.550	12.526	1.00	0.51	SEG1
ATOM	509	HD1	PRO	35	11.857	8.620	13.374	1.00	0.51	SEG1
ATOM	510	C	PRO	35	11.895	8.917	9.054	1.00	0.43	SEG1
ATOM	511	O	PRO	35	11.339	8.898	7.972	1.00	0.42	SEG1
ATOM	512	N	GLN	36	13.204	8.958	9.149	1.00	0.46	SEG1
ATOM	513	HN	GLN	36	13.628	8.971	10.032	1.00	0.48	SEG1
ATOM	514	CA	GLN	36	14.048	8.983	7.910	1.00	0.49	SEG1
ATOM	515	HA	GLN	36	13.841	9.867	7.329	1.00	0.52	SEG1
ATOM	516	CB	GLN	36	15.497	9.005	8.402	1.00	0.56	SEG1
ATOM	517	HB1	GLN	36	16.163	8.849	7.565	1.00	0.92	SEG1
ATOM	518	HB2	GLN	36	15.644	8.220	9.129	1.00	0.96	SEG1
ATOM	519	CG	GLN	36	15.801	10.360	9.044	1.00	1.47	SEG1
ATOM	520	HG1	GLN	36	15.086	10.555	9.828	1.00	2.04	SEG1
ATOM	521	HG2	GLN	36	15.737	11.136	9.294	1.00	2.03	SEG1
ATOM	522	CD	GLN	36	17.211	10.337	9.636	1.00	1.79	SEG1
ATOM	523	OE1	GLN	36	17.670	9.313	10.102	1.00	1.72	SEG1
ATOM	524	NE2	GLN	36	17.922	11.430	9.638	1.00	2.68	SEG1
ATOM	525	HE21	GLN	36	17.553	12.256	9.261	1.00	3.14	SEG1
ATOM	526	HE22	GLN	36	18.827	11.426	10.015	1.00	3.03	SEG1

ATOM	527	C	GLN	36	13.784	7.724	7.081	1.00	0.44	SEG1
ATOM	528	O	GLN	36	13.699	7.773	5.868	1.00	0.45	SEG1
ATOM	529	N	GLN	37	13.641	6.602	7.734	1.00	0.41	SEG1
ATOM	530	HN	GLN	37	13.704	6.599	8.714	1.00	0.41	SEG1
ATOM	531	CA	GLN	37	13.363	5.331	7.003	1.00	0.40	SEG1
ATOM	532	HA	GLN	37	14.080	5.189	6.213	1.00	0.45	SEG1
ATOM	533	CB	GLN	37	13.518	4.228	8.052	1.00	0.41	SEG1
ATOM	534	HB1	GLN	37	13.168	3.290	7.649	1.00	0.42	SEG1
ATOM	535	HB2	GLN	37	12.944	4.483	8.932	1.00	0.38	SEG1
ATOM	536	CG	GLN	37	14.999	4.103	8.424	1.00	0.48	SEG1
ATOM	537	HG1	GLN	37	15.356	5.048	8.803	1.00	0.60	SEG1
ATOM	538	HG2	GLN	37	15.566	3.830	7.546	1.00	0.64	SEG1
ATOM	539	CD	GLN	37	15.178	3.027	9.497	1.00	0.50	SEG1
ATOM	540	OE1	GLN	37	14.775	3.208	10.626	1.00	1.10	SEG1
ATOM	541	NE2	GLN	37	15.773	1.907	9.193	1.00	0.90	SEG1
ATOM	542	HE21	GLN	37	16.103	1.758	8.282	1.00	1.44	SEG1
ATOM	543	HE22	GLN	37	15.889	1.213	9.876	1.00	0.99	SEG1
ATOM	544	C	GLN	37	11.950	5.366	6.422	1.00	0.36	SEG1
ATOM	545	O	GLN	37	11.706	4.870	5.340	1.00	0.37	SEG1
ATOM	546	N	LYS	38	11.022	5.968	7.125	1.00	0.33	SEG1
ATOM	547	HN	LYS	38	11.253	6.372	7.987	1.00	0.33	SEG1
ATOM	548	CA	LYS	38	9.620	6.055	6.604	1.00	0.31	SEG1
ATOM	549	HA	LYS	38	9.196	5.071	6.484	1.00	0.32	SEG1
ATOM	550	CB	LYS	38	8.849	6.839	7.672	1.00	0.33	SEG1
ATOM	551	HB1	LYS	38	9.294	7.815	7.792	1.00	0.35	SEG1
ATOM	552	HB2	LYS	38	8.894	6.306	8.610	1.00	0.34	SEG1
ATOM	553	CG	LYS	38	7.388	6.999	7.251	1.00	0.36	SEG1
ATOM	554	HG1	LYS	38	6.937	6.024	7.138	1.00	0.37	SEG1
ATOM	555	HG2	LYS	38	7.338	7.532	6.312	1.00	0.36	SEG1
ATOM	556	CD	LYS	38	6.635	7.784	8.328	1.00	0.46	SEG1
ATOM	557	HD1	LYS	38	7.088	8.756	8.450	1.00	1.19	SEG1
ATOM	558	HD2	LYS	38	6.682	7.244	9.264	1.00	1.04	SEG1
ATOM	559	CE	LYS	38	5.175	7.953	7.910	1.00	1.07	SEG1
ATOM	560	HE1	LYS	38	4.696	6.991	7.826	1.00	1.63	SEG1
ATOM	561	HE2	LYS	38	5.113	8.490	6.973	1.00	1.71	SEG1
ATOM	562	NZ	LYS	38	4.547	8.742	9.007	1.00	1.03	SEG1
ATOM	563	HZ1	LYS	38	5.129	9.580	9.207	1.00	1.31	SEG1
ATOM	564	HZ2	LYS	38	4.478	8.152	9.862	1.00	1.61	SEG1
ATOM	565	HZ3	LYS	38	3.596	9.044	8.716	1.00	1.33	SEG1
ATOM	566	C	LYS	38	9.619	6.811	5.269	1.00	0.32	SEG1
ATOM	567	O	LYS	38	8.966	6.417	4.321	1.00	0.34	SEG1
ATOM	568	N	VAL	39	10.366	7.883	5.191	1.00	0.33	SEG1
ATOM	569	HN	VAL	39	10.888	8.164	5.969	1.00	0.34	SEG1
ATOM	570	CA	VAL	39	10.439	8.664	3.917	1.00	0.35	SEG1
ATOM	571	HA	VAL	39	9.447	8.907	3.564	1.00	0.36	SEG1
ATOM	572	CB	VAL	39	11.208	9.947	4.274	1.00	0.38	SEG1
ATOM	573	HB	VAL	39	12.149	9.682	4.733	1.00	0.39	SEG1
ATOM	574	CG1	VAL	39	11.479	10.772	3.009	1.00	0.42	SEG1
ATOM	575	HG11	VAL	39	11.881	11.735	3.286	1.00	1.12	SEG1
ATOM	576	HG12	VAL	39	10.557	10.910	2.465	1.00	1.09	SEG1
ATOM	577	HG13	VAL	39	12.190	10.251	2.385	1.00	1.05	SEG1
ATOM	578	CG2	VAL	39	10.381	10.782	5.253	1.00	0.38	SEG1
ATOM	579	HG21	VAL	39	10.683	11.816	5.188	1.00	1.08	SEG1
ATOM	580	HG22	VAL	39	10.545	10.422	6.258	1.00	1.12	SEG1
ATOM	581	HG23	VAL	39	9.334	10.695	5.005	1.00	1.03	SEG1
ATOM	582	C	VAL	39	11.203	7.842	2.870	1.00	0.37	SEG1
ATOM	583	O	VAL	39	10.831	7.796	1.713	1.00	0.40	SEG1
ATOM	584	N	ALA	40	12.260	7.178	3.277	1.00	0.39	SEG1
ATOM	585	HN	ALA	40	12.533	7.222	4.218	1.00	0.38	SEG1
ATOM	586	CA	ALA	40	13.035	6.340	2.310	1.00	0.42	SEG1
ATOM	587	HA	ALA	40	13.366	6.933	1.471	1.00	0.46	SEG1
ATOM	588	CB	ALA	40	14.234	5.810	3.098	1.00	0.45	SEG1
ATOM	589	HB1	ALA	40	14.571	6.566	3.793	1.00	1.04	SEG1
ATOM	590	HB2	ALA	40	15.035	5.566	2.416	1.00	1.12	SEG1
ATOM	591	HB3	ALA	40	13.943	4.924	3.644	1.00	1.11	SEG1
ATOM	592	C	ALA	40	12.142	5.193	1.842	1.00	0.40	SEG1
ATOM	593	O	ALA	40	12.097	4.854	0.675	1.00	0.42	SEG1
ATOM	594	N	VAL	41	11.401	4.625	2.756	1.00	0.38	SEG1
ATOM	595	HN	VAL	41	11.447	4.948	3.681	1.00	0.37	SEG1
ATOM	596	CA	VAL	41	10.457	3.522	2.402	1.00	0.38	SEG1
ATOM	597	HA	VAL	41	10.991	2.697	1.958	1.00	0.41	SEG1
ATOM	598	CB	VAL	41	9.836	3.092	3.741	1.00	0.37	SEG1
ATOM	599	HB	VAL	41	9.493	3.965	4.276	1.00	0.35	SEG1
ATOM	600	CG1	VAL	41	8.663	2.133	3.508	1.00	0.38	SEG1
ATOM	601	HG11	VAL	41	7.767	2.703	3.315	1.00	0.97	SEG1
ATOM	602	HG12	VAL	41	8.518	1.522	4.387	1.00	1.10	SEG1
ATOM	603	HG13	VAL	41	8.878	1.500	2.660	1.00	1.07	SEG1

ATOM	604	CG2	VAL	41	10.901	2.376	4.573	1.00	0.39	SEG1
ATOM	605	HG21	VAL	41	11.863	2.833	4.395	1.00	1.06	SEG1
ATOM	606	HG22	VAL	41	10.940	1.335	4.290	1.00	1.05	SEG1
ATOM	607	HG23	VAL	41	10.654	2.456	5.622	1.00	1.11	SEG1
ATOM	608	C	VAL	41	9.411	4.070	1.424	1.00	0.37	SEG1
ATOM	609	O	VAL	41	9.028	3.416	0.473	1.00	0.39	SEG1
ATOM	610	N	TYR	42	8.958	5.278	1.655	1.00	0.37	SEG1
ATOM	611	HN	TYR	42	9.295	5.778	2.417	1.00	0.37	SEG1
ATOM	612	CA	TYR	42	7.941	5.909	0.746	1.00	0.40	SEG1
ATOM	613	HA	TYR	42	6.973	5.454	0.886	1.00	0.40	SEG1
ATOM	614	CB	TYR	42	7.896	7.390	1.168	1.00	0.43	SEG1
ATOM	615	HB1	TYR	42	8.104	8.016	0.312	1.00	0.53	SEG1
ATOM	616	HB2	TYR	42	8.641	7.570	1.926	1.00	0.47	SEG1
ATOM	617	CG	TYR	42	6.539	7.749	1.724	1.00	0.41	SEG1
ATOM	618	CD1	TYR	42	5.881	8.890	1.251	1.00	1.26	SEG1
ATOM	619	HD1	TYR	42	6.341	9.499	0.488	1.00	2.09	SEG1
ATOM	620	CD2	TYR	42	5.944	6.960	2.715	1.00	1.17	SEG1
ATOM	621	HD2	TYR	42	6.450	6.081	3.082	1.00	2.02	SEG1
ATOM	622	CE1	TYR	42	4.631	9.242	1.764	1.00	1.31	SEG1
ATOM	623	HE1	TYR	42	4.129	10.125	1.397	1.00	2.16	SEG1
ATOM	624	CE2	TYR	42	4.691	7.311	3.228	1.00	1.19	SEG1
ATOM	625	HE2	TYR	42	4.233	6.703	3.991	1.00	2.02	SEG1
ATOM	626	CZ	TYR	42	4.034	8.453	2.754	1.00	0.60	SEG1
ATOM	627	OH	TYR	42	2.799	8.799	3.261	1.00	0.75	SEG1
ATOM	628	HH	TYR	42	2.917	9.056	4.179	1.00	1.20	SEG1
ATOM	629	C	TYR	42	8.385	5.801	-0.722	1.00	0.43	SEG1
ATOM	630	O	TYR	42	7.621	5.411	-1.584	1.00	0.42	SEG1
ATOM	631	N	ARG	43	9.615	6.155	-1.004	1.00	0.49	SEG1
ATOM	632	HN	ARG	43	10.206	6.471	-0.288	1.00	0.51	SEG1
ATOM	633	CA	ARG	43	10.116	6.086	-2.411	1.00	0.54	SEG1
ATOM	634	HA	ARG	43	9.465	6.640	-3.069	1.00	0.56	SEG1
ATOM	635	CB	ARG	43	11.501	6.736	-2.380	1.00	0.66	SEG1
ATOM	636	HB1	ARG	43	11.994	6.578	-3.327	1.00	1.44	SEG1
ATOM	637	HB2	ARG	43	12.089	6.292	-1.589	1.00	1.20	SEG1
ATOM	638	CG	ARG	43	11.358	8.238	-2.128	1.00	0.88	SEG1
ATOM	639	HG1	ARG	43	10.875	8.398	-1.175	1.00	1.42	SEG1
ATOM	640	HG2	ARG	43	10.762	8.680	-2.914	1.00	1.62	SEG1
ATOM	641	CD	ARG	43	12.746	8.887	-2.107	1.00	0.77	SEG1
ATOM	642	HD1	ARG	43	13.387	8.381	-1.402	1.00	1.04	SEG1
ATOM	643	HD2	ARG	43	12.665	9.937	-1.859	1.00	1.12	SEG1
ATOM	644	NE	ARG	43	13.278	8.717	-3.497	1.00	1.91	SEG1
ATOM	645	HE	ARG	43	12.718	8.291	-4.180	1.00	2.62	SEG1
ATOM	646	CZ	ARG	43	14.490	9.118	-3.823	1.00	2.29	SEG1
ATOM	647	NH1	ARG	43	14.915	8.932	-5.042	1.00	3.44	SEG1
ATOM	648	HH11	ARG	43	14.323	8.491	-5.716	1.00	4.07	SEG1
ATOM	649	HH12	ARG	43	15.832	9.231	-5.303	1.00	3.79	SEG1
ATOM	650	NH2	ARG	43	15.279	9.704	-2.952	1.00	1.85	SEG1
ATOM	651	HH21	ARG	43	14.973	9.860	-2.014	1.00	1.42	SEG1
ATOM	652	HH22	ARG	43	16.195	9.997	-3.230	1.00	2.34	SEG1
ATOM	653	C	ARG	43	10.227	4.630	-2.874	1.00	0.50	SEG1
ATOM	654	O	ARG	43	9.908	4.304	-4.002	1.00	0.50	SEG1
ATOM	655	N	ALA	44	10.680	3.754	-2.011	1.00	0.51	SEG1
ATOM	656	HN	ALA	44	10.931	4.044	-1.108	1.00	0.52	SEG1
ATOM	657	CA	ALA	44	10.816	2.315	-2.400	1.00	0.52	SEG1
ATOM	658	HA	ALA	44	11.458	2.217	-3.261	1.00	0.57	SEG1
ATOM	659	CB	ALA	44	11.454	1.627	-1.191	1.00	0.54	SEG1
ATOM	660	HB1	ALA	44	10.679	1.303	-0.511	1.00	1.08	SEG1
ATOM	661	HB2	ALA	44	12.108	2.321	-0.686	1.00	1.23	SEG1
ATOM	662	HB3	ALA	44	12.023	0.771	-1.522	1.00	1.10	SEG1
ATOM	663	C	ALA	44	9.439	1.714	-2.690	1.00	0.45	SEG1
ATOM	664	O	ALA	44	9.255	0.999	-3.657	1.00	0.47	SEG1
ATOM	665	N	LEU	45	8.474	2.001	-1.855	1.00	0.41	SEG1
ATOM	666	HN	LEU	45	8.655	2.581	-1.084	1.00	0.42	SEG1
ATOM	667	CA	LEU	45	7.101	1.454	-2.069	1.00	0.38	SEG1
ATOM	668	HA	LEU	45	7.139	0.384	-2.197	1.00	0.41	SEG1
ATOM	669	CB	LEU	45	6.323	1.802	-0.801	1.00	0.37	SEG1
ATOM	670	HB1	LEU	45	5.278	1.582	-0.951	1.00	0.37	SEG1
ATOM	671	HB2	LEU	45	6.442	2.854	-0.581	1.00	0.37	SEG1
ATOM	672	CG	LEU	45	6.852	0.971	0.368	1.00	0.40	SEG1
ATOM	673	HG	LEU	45	7.928	1.054	0.410	1.00	0.41	SEG1
ATOM	674	CD1	LEU	45	6.251	1.494	1.673	1.00	0.42	SEG1
ATOM	675	HD11	LEU	45	5.183	1.332	1.668	1.00	0.91	SEG1
ATOM	676	HD12	LEU	45	6.455	2.550	1.764	1.00	1.16	SEG1
ATOM	677	HD13	LEU	45	6.692	0.968	2.507	1.00	1.10	SEG1
ATOM	678	CD2	LEU	45	6.457	-0.495	0.176	1.00	0.45	SEG1
ATOM	679	HD21	LEU	45	7.249	-1.016	-0.341	1.00	1.17	SEG1
ATOM	680	HD22	LEU	45	5.550	-0.551	-0.408	1.00	1.07	SEG1

ATOM	681	HD23	LEU	45	6.294	-0.954	1.140	1.00	1.06	SEG1
ATOM	682	C	LEU	45	6.457	2.115	-3.290	1.00	0.37	SEG1
ATOM	683	O	LEU	45	5.698	1.500	-4.014	1.00	0.37	SEG1
ATOM	684	N	GLN	46	6.755	3.369	-3.513	1.00	0.37	SEG1
ATOM	685	HN	GLN	46	7.368	3.836	-2.906	1.00	0.39	SEG1
ATOM	686	CA	GLN	46	6.162	4.094	-4.680	1.00	0.38	SEG1
ATOM	687	HA	GLN	46	5.089	4.141	-4.588	1.00	0.39	SEG1
ATOM	688	CB	GLN	46	6.756	5.506	-4.611	1.00	0.42	SEG1
ATOM	689	HB1	GLN	46	7.831	5.447	-4.681	1.00	0.42	SEG1
ATOM	690	HB2	GLN	46	6.482	5.963	-3.671	1.00	0.43	SEG1
ATOM	691	CG	GLN	46	6.220	6.358	-5.767	1.00	0.46	SEG1
ATOM	692	HG1	GLN	46	5.144	6.415	-5.702	1.00	0.54	SEG1
ATOM	693	HG2	GLN	46	6.500	5.905	-6.706	1.00	0.65	SEG1
ATOM	694	CD	GLN	46	6.808	7.772	-5.687	1.00	0.92	SEG1
ATOM	695	OE1	GLN	46	7.395	8.149	-4.690	1.00	1.16	SEG1
ATOM	696	NE2	GLN	46	6.687	8.573	-6.710	1.00	1.46	SEG1
ATOM	697	HE21	GLN	46	6.225	8.269	-7.519	1.00	1.64	SEG1
ATOM	698	HE22	GLN	46	7.057	9.480	-6.669	1.00	1.83	SEG1
ATOM	699	C	GLN	46	6.555	3.402	-5.989	1.00	0.37	SEG1
ATOM	700	O	GLN	46	5.752	3.272	-6.895	1.00	0.37	SEG1
ATOM	701	N	ALA	47	7.781	2.957	-6.092	1.00	0.39	SEG1
ATOM	702	HN	ALA	47	8.405	3.072	-5.345	1.00	0.41	SEG1
ATOM	703	CA	ALA	47	8.226	2.267	-7.341	1.00	0.41	SEG1
ATOM	704	HA	ALA	47	8.001	2.873	-8.204	1.00	0.41	SEG1
ATOM	705	CB	ALA	47	9.740	2.105	-7.195	1.00	0.46	SEG1
ATOM	706	HB1	ALA	47	9.958	1.155	-6.730	1.00	1.14	SEG1
ATOM	707	HB2	ALA	47	10.131	2.904	-6.582	1.00	1.11	SEG1
ATOM	708	HB3	ALA	47	10.202	2.143	-8.171	1.00	1.09	SEG1
ATOM	709	C	ALA	47	7.550	0.898	-7.462	1.00	0.39	SEG1
ATOM	710	O	ALA	47	7.154	0.487	-8.536	1.00	0.39	SEG1
ATOM	711	N	ALA	48	7.422	0.191	-6.368	1.00	0.40	SEG1
ATOM	712	HN	ALA	48	7.755	0.547	-5.516	1.00	0.41	SEG1
ATOM	713	CA	ALA	48	6.777	-1.159	-6.414	1.00	0.42	SEG1
ATOM	714	HA	ALA	48	7.346	-1.823	-7.045	1.00	0.45	SEG1
ATOM	715	CB	ALA	48	6.800	-1.669	-4.972	1.00	0.46	SEG1
ATOM	716	HB1	ALA	48	6.464	-0.887	-4.307	1.00	1.10	SEG1
ATOM	717	HB2	ALA	48	7.807	-1.958	-4.708	1.00	1.01	SEG1
ATOM	718	HB3	ALA	48	6.146	-2.524	-4.882	1.00	0.97	SEG1
ATOM	719	C	ALA	48	5.336	-1.051	-6.921	1.00	0.39	SEG1
ATOM	720	O	ALA	48	4.896	-1.843	-7.734	1.00	0.40	SEG1
ATOM	721	N	LEU	49	4.598	-0.079	-6.446	1.00	0.36	SEG1
ATOM	722	HN	LEU	49	4.977	0.544	-5.790	1.00	0.36	SEG1
ATOM	723	CA	LEU	49	3.181	0.083	-6.896	1.00	0.35	SEG1
ATOM	724	HA	LEU	49	2.603	-0.787	-6.632	1.00	0.38	SEG1
ATOM	725	CB	LEU	49	2.647	1.305	-6.154	1.00	0.33	SEG1
ATOM	726	HB1	LEU	49	1.643	1.509	-6.490	1.00	0.35	SEG1
ATOM	727	HB2	LEU	49	3.275	2.156	-6.362	1.00	0.33	SEG1
ATOM	728	CG	LEU	49	2.634	1.032	-4.650	1.00	0.35	SEG1
ATOM	729	HG	LEU	49	3.604	0.669	-4.341	1.00	0.37	SEG1
ATOM	730	CD1	LEU	49	2.312	2.326	-3.902	1.00	0.37	SEG1
ATOM	731	HD11	LEU	49	2.785	2.309	-2.932	1.00	1.08	SEG1
ATOM	732	HD12	LEU	49	1.242	2.414	-3.781	1.00	1.06	SEG1
ATOM	733	HD13	LEU	49	2.680	3.169	-4.467	1.00	1.10	SEG1
ATOM	734	CD2	LEU	49	1.568	-0.017	-4.329	1.00	0.39	SEG1
ATOM	735	HD21	LEU	49	1.954	-1.002	-4.549	1.00	1.04	SEG1
ATOM	736	HD22	LEU	49	0.689	0.168	-4.928	1.00	1.15	SEG1
ATOM	737	HD23	LEU	49	1.309	0.043	-3.282	1.00	1.02	SEG1
ATOM	738	C	LEU	49	3.124	0.321	-8.406	1.00	0.36	SEG1
ATOM	739	O	LEU	49	2.256	-0.188	-9.089	1.00	0.38	SEG1
ATOM	740	N	ALA	50	4.041	1.101	-8.932	1.00	0.36	SEG1
ATOM	741	HN	ALA	50	4.726	1.504	-8.355	1.00	0.35	SEG1
ATOM	742	CA	ALA	50	4.040	1.388	-10.404	1.00	0.39	SEG1
ATOM	743	HA	ALA	50	3.192	1.998	-10.667	1.00	0.40	SEG1
ATOM	744	CB	ALA	50	5.338	2.158	-10.664	1.00	0.42	SEG1
ATOM	745	HB1	ALA	50	5.640	2.669	-9.761	1.00	1.08	SEG1
ATOM	746	HB2	ALA	50	5.177	2.880	-11.449	1.00	1.10	SEG1
ATOM	747	HB3	ALA	50	6.112	1.468	-10.963	1.00	1.13	SEG1
ATOM	748	C	ALA	50	4.025	0.082	-11.202	1.00	0.41	SEG1
ATOM	749	O	ALA	50	3.347	-0.037	-12.205	1.00	0.44	SEG1
ATOM	750	N	GLU	51	4.759	-0.897	-10.749	1.00	0.42	SEG1
ATOM	751	HN	GLU	51	5.285	-0.771	-9.932	1.00	0.40	SEG1
ATOM	752	CA	GLU	51	4.788	-2.209	-11.460	1.00	0.46	SEG1
ATOM	753	HA	GLU	51	5.054	-2.070	-12.495	1.00	0.50	SEG1
ATOM	754	CB	GLU	51	5.864	-3.033	-10.750	1.00	0.49	SEG1
ATOM	755	HB1	GLU	51	5.823	-4.055	-11.096	1.00	0.53	SEG1
ATOM	756	HB2	GLU	51	5.693	-3.006	-9.684	1.00	0.47	SEG1
ATOM	757	CG	GLU	51	7.245	-2.446	-11.064	1.00	0.52	SEG1

ATOM	758	HG1	GLU	51	7.284	-1.423	-10.720	1.00	0.83	SEG1
ATOM	759	HG2	GLU	51	7.409	-2.470	-12.131	1.00	0.71	SEG1
ATOM	760	CD	GLU	51	8.343	-3.257	-10.361	1.00	0.92	SEG1
ATOM	761	OE1	GLU	51	8.013	-4.095	-9.533	1.00	1.57	SEG1
ATOM	762	OE2	GLU	51	9.502	-3.025	-10.664	1.00	1.58	SEG1
ATOM	763	C	GLU	51	3.422	-2.895	-11.347	1.00	0.46	SEG1
ATOM	764	O	GLU	51	2.956	-3.522	-12.279	1.00	0.50	SEG1
ATOM	765	N	SER	52	2.784	-2.789	-10.205	1.00	0.42	SEG1
ATOM	766	HN	SER	52	3.185	-2.283	-9.466	1.00	0.39	SEG1
ATOM	767	CA	SER	52	1.451	-3.445	-10.022	1.00	0.43	SEG1
ATOM	768	HA	SER	52	1.453	-4.420	-10.480	1.00	0.47	SEG1
ATOM	769	CB	SER	52	1.287	-3.588	-8.510	1.00	0.42	SEG1
ATOM	770	HB1	SER	52	0.312	-4.003	-8.293	1.00	1.06	SEG1
ATOM	771	HB2	SER	52	1.375	-2.622	-8.043	1.00	0.95	SEG1
ATOM	772	OG	SER	52	2.304	-4.445	-8.007	1.00	1.34	SEG1
ATOM	773	HG	SER	52	2.885	-3.922	-7.451	1.00	1.64	SEG1
ATOM	774	C	SER	52	0.316	-2.587	-10.604	1.00	0.42	SEG1
ATOM	775	O	SER	52	-0.808	-3.043	-10.713	1.00	0.46	SEG1
ATOM	776	N	GLY	53	0.591	-1.361	-10.984	1.00	0.41	SEG1
ATOM	777	HN	GLY	53	1.500	-1.009	-10.891	1.00	0.40	SEG1
ATOM	778	CA	GLY	53	-0.483	-0.497	-11.563	1.00	0.42	SEG1
ATOM	779	HA1	GLY	53	-1.350	-1.102	-11 778	1.00	0.45	SEG1
ATOM	780	HA2	GLY	53	-0.125	-0.048	-12 477	1.00	0.45	SEG1
ATOM	781	C	GLY	53	-0.876	0.610	-10.576	1.00	0.39	SEG1
ATOM	782	O	GLY	53	-1.904	1.244	-10.731	1.00	0.41	SEG1
ATOM	783	N	GLY	54	-0.068	0.858	-9.574	1.00	0.37	SEG1
ATOM	784	HN	GLY	54	0.758	0.348	-9.472	1.00	0.38	SEG1
ATOM	785	CA	GLY	54	-0.395	1.933	-8.594	1.00	0.35	SEG1
ATOM	786	HA1	GLY	54	-0.294	1.551	-7.589	1.00	0.35	SEG1
ATOM	787	HA2	GLY	54	-1.408	2.274	-8 754	1.00	0.35	SEG1
ATOM	788	C	GLY	54	0.578	3.091	-8 797	1.00	0.38	SEG1
ATOM	789	O	GLY	54	1.469	3.314	-7 999	1.00	0.40	SEG1
ATOM	790	N	SER	55	0.417	3.823	-9.869	1.00	0.41	SEG1
ATOM	791	HN	SER	55	-0.305	3.610	-10 497	1.00	0.41	SEG1
ATOM	792	CA	SER	55	1.338	4.969	-10 146	1.00	0.46	SEG1
ATOM	793	HA	SER	55	2.352	4.618	-10 258	1.00	0.50	SEG1
ATOM	794	CB	SER	55	0.846	5.576	-11 463	1.00	0.50	SEG1
ATOM	795	HB1	SER	55	0.676	4.784	-12.181	1.00	0.50	SEG1
ATOM	796	HB2	SER	55	1.587	6.254	-11.850	1.00	0.59	SEG1
ATOM	797	OG	SER	55	-0.363	6.286	-11.233	1.00	0.49	SEG1
ATOM	798	HG	SER	55	-0.161	7.225	-11 238	1.00	0.74	SEG1
ATOM	799	C	SER	55	1.248	6.001	-9 012	1.00	0.46	SEG1
ATOM	800	O	SER	55	0.277	6.023	-8 283	1.00	0.42	SEG1
ATOM	801	N	PRO	56	2.265	6.826	-8 889	1.00	0.54	SEG1
ATOM	802	CA	PRO	56	2.267	7.855	-7 818	1.00	0.56	SEG1
ATOM	803	HA	PRO	56	2.081	7.403	-6.858	1.00	0.55	SEG1
ATOM	804	CB	PRO	56	3.685	8.417	-7.861	1.00	0.66	SEG1
ATOM	805	HB1	PRO	56	4.314	7.904	-7.151	1.00	0.69	SEG1
ATOM	806	HB2	PRO	56	3.673	9.480	-7.659	1.00	0.68	SEG1
ATOM	807	CG	PRO	56	4.163	8.154	-9 252	1.00	0.70	SEG1
ATOM	808	HG1	PRO	56	5.233	8.017	-9.258	1.00	0.77	SEG1
ATOM	809	HG2	PRO	56	3.890	8.978	-9.898	1.00	0.72	SEG1
ATOM	810	CD	PRO	56	3.487	6.889	-9.711	1.00	0.64	SEG1
ATOM	811	HD2	PRO	56	3.240	6.952	-10.763	1.00	0.65	SEG1
ATOM	812	HD1	PRO	56	4.111	6.032	-9.515	1.00	0.67	SEG1
ATOM	813	C	PRO	56	1.241	8.958	-8.105	1.00	0.55	SEG1
ATOM	814	O	PRO	56	0.942	9.765	-7.244	1.00	0.57	SEG1
ATOM	815	N	ASP	57	0.695	9.001	-9.298	1.00	0.56	SEG1
ATOM	816	HN	ASP	57	0.940	8.342	-9.978	1.00	0.56	SEG1
ATOM	817	CA	ASP	57	-0.310	10.053	-9.621	1.00	0.60	SEG1
ATOM	818	HA	ASP	57	-0.082	10.966	-9.095	1.00	0.65	SEG1
ATOM	819	CB	ASP	57	-0.185	10.273	-11.129	1.00	0.68	SEG1
ATOM	820	HB1	ASP	57	-0.999	10.894	-11.470	1.00	1.04	SEG1
ATOM	821	HB2	ASP	57	-0.223	9.320	-11.636	1.00	1.22	SEG1
ATOM	822	CG	ASP	57	1.146	10.965	-11.444	1.00	1.17	SEG1
ATOM	823	OD1	ASP	57	1.650	10.762	-12.536	1.00	1.87	SEG1
ATOM	824	OD2	ASP	57	1.636	11.689	-10.591	1.00	1.84	SEG1
ATOM	825	C	ASP	57	-1.713	9.565	-9.264	1.00	0.57	SEG1
ATOM	826	O	ASP	57	-2.603	10.355	-9.006	1.00	0.66	SEG1
ATOM	827	N	VAL	58	-1.921	8.271	-9.259	1.00	0.49	SEG1
ATOM	828	HN	VAL	58	-1.192	7.654	-9.479	1.00	0.47	SEG1
ATOM	829	CA	VAL	58	-3.271	7.737	-8.930	1.00	0.50	SEG1
ATOM	830	HA	VAL	58	-3.985	8.545	-8.933	1.00	0.54	SEG1
ATOM	831	CB	VAL	58	-3.603	6.764	-10.083	1.00	0.51	SEG1
ATOM	832	HB	VAL	58	-3.274	7.198	-11.015	1.00	0.55	SEG1
ATOM	833	CG1	VAL	58	-2.905	5.406	-9.905	1.00	0.46	SEG1
ATOM	834	HG11	VAL	58	-3.317	4.899	-9.045	1.00	1.04	SEG1

ATOM	835	HG12	VAL	58	-1.849	5.558	-9.760	1.00	1.10	SEG1
ATOM	836	HG13	VAL	58	-3.063	4.803	-10.786	1.00	1.17	SEG1
ATOM	837	CG2	VAL	58	-5.116	6.560	-10.141	1.00	0.64	SEG1
ATOM	838	HG21	VAL	58	-5.442	6.592	-11.169	1.00	1.17	SEG1
ATOM	839	HG22	VAL	58	-5.610	7.344	-9.585	1.00	1.24	SEG1
ATOM	840	HG23	VAL	58	-5.369	5.602	-9.712	1.00	1.13	SEG1
ATOM	841	C	VAL	58	-3.277	7.052	-7.549	1.00	0.45	SEG1
ATOM	842	O	VAL	58	-4.179	7.252	-6.757	1.00	0.49	SEG1
ATOM	843	N	LEU	59	-2.280	6.252	-7.261	1.00	0.40	SEG1
ATOM	844	HN	LEU	59	-1.564	6.110	-7.912	1.00	0.40	SEG1
ATOM	845	CA	LEU	59	-2.224	5.559	-5.937	1.00	0.36	SEG1
ATOM	846	HA	LEU	59	-3.151	5.698	-5.405	1.00	0.38	SEG1
ATOM	847	CB	LEU	59	-2.030	4.076	-6.269	1.00	0.34	SEG1
ATOM	848	HB1	LEU	59	-1.319	3.643	-5.581	1.00	0.32	SEG1
ATOM	849	HB2	LEU	59	-1.659	3.980	-7.279	1.00	0.35	SEG1
ATOM	850	CG	LEU	59	-3.366	3.339	-6.147	1.00	0.35	SEG1
ATOM	851	HG	LEU	59	-4.177	4.025	-6.348	1.00	0.37	SEG1
ATOM	852	CD1	LEU	59	-3.408	2.186	-7.150	1.00	0.36	SEG1
ATOM	853	HD11	LEU	59	-2.581	1.517	-6.964	1.00	1.01	SEG1
ATOM	854	HD12	LEU	59	-3.337	2.579	-8.153	1.00	1.15	SEG1
ATOM	855	HD13	LEU	59	-4.338	1.648	-7.040	1.00	1.03	SEG1
ATOM	856	CD2	LEU	59	-3.506	2.778	-4.730	1.00	0.34	SEG1
ATOM	857	HD21	LEU	59	-3.064	1.793	-4.688	1.00	0.99	SEG1
ATOM	858	HD22	LEU	59	-4.552	2.714	-4.469	1.00	0.92	SEG1
ATOM	859	HD23	LEU	59	-3.000	3.430	-4.033	1.00	1.10	SEG1
ATOM	860	C	LEU	59	-1.053	6.088	-5.106	1.00	0.34	SEG1
ATOM	861	O	LEU	59	0.087	6.060	-5.532	1.00	0.36	SEG1
ATOM	862	N	GLN	60	-1.331	6.565	-3.921	1.00	0.34	SEG1
ATOM	863	HN	GLN	60	-2.259	6.572	-3.605	1.00	0.36	SEG1
ATOM	864	CA	GLN	60	-0.248	7.099	-3.044	1.00	0.34	SEG1
ATOM	865	HA	GLN	60	0.721	6.849	-3.443	1.00	0.35	SEG1
ATOM	866	CB	GLN	60	-0.447	8.615	-3.053	1.00	0.39	SEG1
ATOM	867	HB1	GLN	60	0.187	9.067	-2.304	1.00	0.61	SEG1
ATOM	868	HB2	GLN	60	-1.480	8.843	-2.835	1.00	0.60	SEG1
ATOM	869	CG	GLN	60	-0.081	9.170	-4.430	1.00	0.80	SEG1
ATOM	870	HG1	GLN	60	-0.599	8.610	-5.194	1.00	1.24	SEG1
ATOM	871	HG2	GLN	60	0.986	9.084	-4.581	1.00	1.15	SEG1
ATOM	872	CD	GLN	60	-0.492	10.641	-4.513	1.00	1.13	SEG1
ATOM	873	OE1	GLN	60	-1.398	11.070	-3.827	1.00	1.43	SEG1
ATOM	874	NE2	GLN	60	0.141	11.438	-5.330	1.00	1.63	SEG1
ATOM	875	HE21	GLN	60	0.873	11.093	-5.882	1.00	1.87	SEG1
ATOM	876	HE22	GLN	60	-0.115	12.382	-5.390	1.00	1.98	SEG1
ATOM	877	C	GLN	60	-0.406	6.545	-1.626	1.00	0.30	SEG1
ATOM	878	O	GLN	60	-1.482	6.135	-1.231	1.00	0.30	SEG1
ATOM	879	N	MET	61	0.654	6.535	-0.857	1.00	0.30	SEG1
ATOM	880	HN	MET	61	1.508	6.874	-1.196	1.00	0.33	SEG1
ATOM	881	CA	MET	61	0.560	6.012	0.539	1.00	0.28	SEG1
ATOM	882	HA	MET	61	-0.211	5.264	0.609	1.00	0.27	SEG1
ATOM	883	CB	MET	61	1.926	5.387	0.820	1.00	0.31	SEG1
ATOM	884	HB1	MET	61	1.999	5.139	1.868	1.00	0.35	SEG1
ATOM	885	HB2	MET	61	2.704	6.090	0.560	1.00	0.35	SEG1
ATOM	886	CG	MET	61	2.084	4.116	-0.014	1.00	0.32	SEG1
ATOM	887	HG1	MET	61	1.880	4.339	-1.051	1.00	0.64	SEG1
ATOM	888	HG2	MET	61	1.389	3.368	0.337	1.00	0.57	SEG1
ATOM	889	SD	MET	61	3.773	3.494	0.150	1.00	0.71	SEG1
ATOM	890	CE	MET	61	4.507	4.495	-1.167	1.00	0.46	SEG1
ATOM	891	HE1	MET	61	5.558	4.643	-0.963	1.00	1.11	SEG1
ATOM	892	HE2	MET	61	4.013	5.453	-1.210	1.00	1.09	SEG1
ATOM	893	HE3	MET	61	4.385	3.987	-2.114	1.00	1.09	SEG1
ATOM	894	C	MET	61	0.284	7.164	1.505	1.00	0.30	SEG1
ATOM	895	O	MET	61	1.066	8.090	1.617	1.00	0.40	SEG1
ATOM	896	N	LEU	62	-0.829	7.119	2.191	1.00	0.29	SEG1
ATOM	897	HN	LEU	62	-1.445	6.365	2.073	1.00	0.35	SEG1
ATOM	898	CA	LEU	62	-1.168	8.220	3.144	1.00	0.32	SEG1
ATOM	899	HA	LEU	62	-1.099	9.175	2.645	1.00	0.36	SEG1
ATOM	900	CB	LEU	62	-2.618	7.961	3.556	1.00	0.33	SEG1
ATOM	901	HB1	LEU	62	-2.884	8.613	4.373	1.00	0.84	SEG1
ATOM	902	HB2	LEU	62	-2.727	6.930	3.865	1.00	0.78	SEG1
ATOM	903	CG	LEU	62	-3.536	8.239	2.364	1.00	1.02	SEG1
ATOM	904	HG	LEU	62	-3.166	7.713	1.496	1.00	1.76	SEG1
ATOM	905	CD1	LEU	62	-4.952	7.760	2.683	1.00	1.40	SEG1
ATOM	906	HD11	LEU	62	-4.962	6.682	2.744	1.00	1.72	SEG1
ATOM	907	HD12	LEU	62	-5.625	8.082	1.902	1.00	2.05	SEG1
ATOM	908	HD13	LEU	62	-5.270	9.178	3.626	1.00	1.83	SEG1
ATOM	909	CD2	LEU	62	-3.557	9.742	2.080	1.00	1.50	SEG1
ATOM	910	HD21	LEU	62	-4.406	9.980	1.456	1.00	2.18	SEG1
ATOM	911	HD22	LEU	62	-2.647	10.025	1.572	1.00	1.77	SEG1

ATOM	912	HD23	LEU	62	-3.632	10.284	3.011	1.00	1.93	SEG1
ATOM	913	C	LEU	62	-0.242	8.195	4.363	1.00	0.31	SEG1
ATOM	914	O	LEU	62	0.188	9.230	4.837	1.00	0.34	SEG1
ATOM	915	N	LYS	63	0.076	7.026	4.974	1.00	0.31	SEG1
ATOM	916	HN	LYS	63	-0.278	6.202	4.477	1.00	0.34	SEG1
ATOM	917	CA	LYS	63	0.984	6.956	6.062	1.00	0.33	SEG1
ATOM	918	HA	LYS	63	1.847	7.582	5.908	1.00	0.37	SEG1
ATOM	919	CB	LYS	63	0.154	7.496	7.235	1.00	0.37	SEG1
ATOM	920	HB1	LYS	63	-0.723	6.880	7.368	1.00	0.67	SEG1
ATOM	921	HB2	LYS	63	-0.150	8.511	7.023	1.00	0.76	SEG1
ATOM	922	CG	LYS	63	0.990	7.471	8.522	1.00	0.78	SEG1
ATOM	923	HG1	LYS	63	1.867	8.087	8.393	1.00	1.25	SEG1
ATOM	924	HG2	LYS	63	1.291	6.456	8.735	1.00	1.17	SEG1
ATOM	925	CD	LYS	63	0.157	8.011	9.686	1.00	0.83	SEG1
ATOM	926	HD1	LYS	63	-0.722	7.399	9.815	1.00	1.08	SEG1
ATOM	927	HD2	LYS	63	-0.139	9.026	9.471	1.00	1.00	SEG1
ATOM	928	CE	LYS	63	0.990	7.984	10.970	1.00	1.32	SEG1
ATOM	929	HE1	LYS	63	1.895	8.558	10.846	1.00	1.73	SEG1
ATOM	930	HE2	LYS	63	1.223	6.965	11.244	1.00	1.74	SEG1
ATOM	931	NZ	LYS	63	0.123	8.617	12.004	1.00	1.53	SEG1
ATOM	932	HZ1	LYS	63	-0.025	9.618	11.768	1.00	1.85	SEG1
ATOM	933	HZ2	LYS	63	0.583	8.544	12.934	1.00	1.93	SEG1
ATOM	934	HZ3	LYS	63	-0.796	8.130	12.032	1.00	1.91	SEG1
ATOM	935	C	LYS	63	1.419	5.514	6.336	1.00	0.29	SEG1
ATOM	936	O	LYS	63	0.778	4.566	5.924	1.00	0.28	SEG1
ATOM	937	N	ILE	64	2.499	5.357	7.056	1.00	0.28	SEG1
ATOM	938	HN	ILE	64	2.978	6.141	7.385	1.00	0.31	SEG1
ATOM	939	CA	ILE	64	2.990	3.993	7.402	1.00	0.27	SEG1
ATOM	940	HA	ILE	64	2.589	3.257	6.724	1.00	0.26	SEG1
ATOM	941	CB	ILE	64	4.521	4.064	7.279	1.00	0.29	SEG1
ATOM	942	HB	ILE	64	4.905	4.737	8.033	1.00	0.30	SEG1
ATOM	943	CG1	ILE	64	4.931	4.574	5.883	1.00	0.31	SEG1
ATOM	944	HG11	ILE	64	6.011	4.594	5.813	1.00	0.33	SEG1
ATOM	945	HG12	ILE	64	4.547	5.574	5.742	1.00	0.32	SEG1
ATOM	946	CG2	ILE	64	5.114	2.671	7.507	1.00	0.30	SEG1
ATOM	947	HG21	ILE	64	6.108	2.629	7.085	1.00	1.02	SEG1
ATOM	948	HG22	ILE	64	4.489	1.931	7.030	1.00	1.02	SEG1
ATOM	949	HG23	ILE	64	5.165	2.471	8.567	1.00	1.04	SEG1
ATOM	950	CD1	ILE	64	4.368	3.654	4.791	1.00	0.30	SEG1
ATOM	951	HD11	ILE	64	4.830	3.894	3.844	1.00	1.02	SEG1
ATOM	952	HD12	ILE	64	3.300	3.796	4.714	1.00	1.05	SEG1
ATOM	953	HD13	ILE	64	4.577	2.625	5.042	1.00	1.09	SEG1
ATOM	954	C	ILE	64	2.583	3.686	8.847	1.00	0.26	SEG1
ATOM	955	O	ILE	64	3.032	4.337	9.773	1.00	0.29	SEG1
ATOM	956	N	HIS	65	1.728	2.716	9.047	1.00	0.27	SEG1
ATOM	957	HN	HIS	65	1.371	2.214	8.284	1.00	0.28	SEG1
ATOM	958	CA	HIS	65	1.280	2.384	10.435	1.00	0.27	SEG1
ATOM	959	HA	HIS	65	1.387	3.243	11.077	1.00	0.30	SEG1
ATOM	960	CB	HIS	65	-0.200	2.025	10.296	1.00	0.28	SEG1
ATOM	961	HB1	HIS	65	-0.543	1.551	11.203	1.00	0.31	SEG1
ATOM	962	HB2	HIS	65	-0.329	1.350	9.464	1.00	0.29	SEG1
ATOM	963	CG	HIS	65	-0.999	3.275	10.051	1.00	0.30	SEG1
ATOM	964	ND1	HIS	65	-1.426	4.092	11.086	1.00	1.11	SEG1
ATOM	965	HD1	HIS	65	-1.262	3.949	12.041	1.00	1.90	SEG1
ATOM	966	CD2	HIS	65	-1.456	3.862	8.897	1.00	0.97	SEG1
ATOM	967	HD2	HIS	65	-1.297	3.479	7.900	1.00	1.89	SEG1
ATOM	968	CE1	HIS	65	-2.107	5.115	10.540	1.00	0.85	SEG1
ATOM	969	HE1	HIS	65	-2.560	5.914	11.109	1.00	1.46	SEG1
ATOM	970	NE2	HIS	65	-2.156	5.024	9.208	1.00	0.58	SEG1
ATOM	971	C	HIS	65	2.072	1.201	10.995	1.00	0.28	SEG1
ATOM	972	O	HIS	65	2.183	0.163	10.372	1.00	0.27	SEG1
ATOM	973	N	ARG	66	2.628	1.359	12.170	1.00	0.35	SEG1
ATOM	974	HN	ARG	66	2.527	2.208	12.647	1.00	0.41	SEG1
ATOM	975	CA	ARG	66	3.420	0.258	12.786	1.00	0.39	SEG1
ATOM	976	HA	ARG	66	3.636	-0.510	12.058	1.00	0.36	SEG1
ATOM	977	CB	ARG	66	4.712	0.930	13.235	1.00	0.49	SEG1
ATOM	978	HB1	ARG	66	5.293	0.239	13.821	1.00	0.54	SEG1
ATOM	979	HB2	ARG	66	4.477	1.800	13.831	1.00	0.51	SEG1
ATOM	980	CG	ARG	66	5.516	1.354	12.005	1.00	0.54	SEG1
ATOM	981	HG1	ARG	66	4.935	2.048	11.417	1.00	0.61	SEG1
ATOM	982	HG2	ARG	66	5.748	0.483	11.410	1.00	0.71	SEG1
ATOM	983	CD	ARG	66	6.815	2.029	12.448	1.00	0.64	SEG1
ATOM	984	HD1	ARG	66	7.385	2.345	11.592	1.00	1.19	SEG1
ATOM	985	HD2	ARG	66	7.396	1.353	13.060	1.00	0.78	SEG1
ATOM	986	NE	ARG	66	6.385	3.219	13.248	1.00	1.37	SEG1
ATOM	987	HE	ARG	66	6.366	3.156	14.225	1.00	1.94	SEG1
ATOM	988	CZ	ARG	66	6.041	4.354	12.669	1.00	2.05	SEG1

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ATOM	989	NH1	ARG	66	5.696	5.367	13.415	1.00	2.83	SEG1
ATOM	990	HH11	ARG	66	5.693	5.277	14.411	1.00	3.08	SEG1
ATOM	991	HH12	ARG	66	5.435	6.234	12.991	1.00	3.45	SEG1
ATOM	992	NH2	ARG	66	6.027	4.487	11.362	1.00	2.58	SEG1
ATOM	993	HH21	ARG	66	6.277	3.723	10.771	1.00	2.48	SEG1
ATOM	994	HH22	ARG	66	5.764	5.362	10.956	1.00	3.40	SEG1
ATOM	995	C	ARG	66	2.674	-0.330	13.990	1.00	0.43	SEG1
ATOM	996	O	ARG	66	2.379	0.364	14.945	1.00	0.49	SEG1
ATOM	997	N	SER	67	2.379	-1.604	13.954	1.00	0.42	SEG1
ATOM	998	HN	SER	67	2.635	-2.141	13.175	1.00	0.39	SEG1
ATOM	999	CA	SER	67	1.662	-2.250	15.097	1.00	0.49	SEG1
ATOM	1000	HA	SER	67	1.880	-1.735	16.019	1.00	0.54	SEG1
ATOM	1001	CB	SER	67	0.177	-2.121	14.760	1.00	0.52	SEG1
ATOM	1002	HB1	SER	67	-0.042	-2.702	13.874	1.00	0.53	SEG1
ATOM	1003	HB2	SER	67	-0.064	-1.087	14.576	1.00	0.53	SEG1
ATOM	1004	OG	SER	67	-0.596	-2.593	15.856	1.00	0.57	SEG1
ATOM	1005	HG	SER	67	-0.742	-3.534	15.732	1.00	1.01	SEG1
ATOM	1006	C	SER	67	2.070	-3.721	15.193	1.00	0.49	SEG1
ATOM	1007	O	SER	67	2.287	-4.364	14.187	1.00	0.47	SEG1
ATOM	1008	N	ASP	68	2.182	-4.252	16.398	1.00	0.54	SEG1
ATOM	1009	HN	ASP	68	2.003	-3.695	17.185	1.00	0.56	SEG1
ATOM	1010	CA	ASP	68	2.584	-5.694	16.591	1.00	0.57	SEG1
ATOM	1011	HA	ASP	68	2.852	-5.851	17.625	1.00	0.61	SEG1
ATOM	1012	CB	ASP	68	1.298	-6.497	16.270	1.00	0.60	SEG1
ATOM	1013	HB1	ASP	68	0.449	-5.962	16.671	1.00	0.62	SEG1
ATOM	1014	HB2	ASP	68	1.349	-7.461	16.746	1.00	0.64	SEG1
ATOM	1015	CG	ASP	68	1.092	-6.685	14.758	1.00	0.56	SEG1
ATOM	1016	OD1	ASP	68	1.946	-7.284	14.125	1.00	1.22	SEG1
ATOM	1017	OD2	ASP	68	0.080	-6.221	14.260	1.00	1.18	SEG1
ATOM	1018	C	ASP	68	3.799	-6.044	15.691	1.00	0.53	SEG1
ATOM	1019	O	ASP	68	4.412	-5.146	15.145	1.00	0.49	SEG1
ATOM	1020	N	PRO	69	4.131	-7.314	15.552	1.00	0.55	SEG1
ATOM	1021	CA	PRO	69	5.288	-7.686	14.697	1.00	0.54	SEG1
ATOM	1022	HA	PRO	69	6.116	-7.018	14.871	1.00	0.53	SEG1
ATOM	1023	CB	PRO	69	5.649	-9.089	15.170	1.00	0.60	SEG1
ATOM	1024	HB1	PRO	69	6.420	-9.043	15.922	1.00	0.63	SEG1
ATOM	1025	HB2	PRO	69	5.974	-9.691	14.333	1.00	0.60	SEG1
ATOM	1026	CG	PRO	69	4.393	-9.652	15.760	1.00	0.64	SEG1
ATOM	1027	HG1	PRO	69	4.631	-10.242	16.631	1.00	0.69	SEG1
ATOM	1028	HG2	PRO	69	3.889	-10.267	15.027	1.00	0.64	SEG1
ATOM	1029	CD	PRO	69	3.503	-8.498	16.160	1.00	0.62	SEG1
ATOM	1030	HD2	PRO	69	2.509	-8.648	15.769	1.00	0.62	SEG1
ATOM	1031	HD1	PRO	69	3.477	-8.395	17.234	1.00	0.67	SEG1
ATOM	1032	C	PRO	69	4.905	-7.692	13.206	1.00	0.51	SEG1
ATOM	1033	O	PRO	69	5.179	-8.639	12.494	1.00	0.71	SEG1
ATOM	1034	N	GLN	70	4.290	-6.636	12.729	1.00	0.39	SEG1
ATOM	1035	HN	GLN	70	4.095	-5.881	13.315	1.00	0.48	SEG1
ATOM	1036	CA	GLN	70	3.901	-6.556	11.289	1.00	0.34	SEG1
ATOM	1037	HA	GLN	70	4.557	-7.162	10.678	1.00	0.34	SEG1
ATOM	1038	CB	GLN	70	2.465	-7.086	11.214	1.00	0.37	SEG1
ATOM	1039	HB1	GLN	70	2.064	-6.894	10.230	1.00	0.35	SEG1
ATOM	1040	HB2	GLN	70	1.859	-6.583	11.953	1.00	0.40	SEG1
ATOM	1041	CG	GLN	70	2.446	-8.593	11.481	1.00	0.42	SEG1
ATOM	1042	HG1	GLN	70	2.834	-8.790	12.467	1.00	0.45	SEG1
ATOM	1043	HG2	GLN	70	3.054	-9.098	10.747	1.00	0.41	SEG1
ATOM	1044	CD	GLN	70	1.008	-9.109	11.399	1.00	0.47	SEG1
ATOM	1045	OE1	GLN	70	0.070	-8.372	11.633	1.00	0.63	SEG1
ATOM	1046	NE2	GLN	70	0.794	-10.353	11.070	1.00	0.47	SEG1
ATOM	1047	HE21	GLN	70	1.552	-10.946	10.880	1.00	0.53	SEG1
ATOM	1048	HE22	GLN	70	-0.122	-10.695	11.011	1.00	0.51	SEG1
ATOM	1049	C	GLN	70	3.944	-5.090	10.849	1.00	0.31	SEG1
ATOM	1050	O	GLN	70	3.883	-4.195	11.671	1.00	0.36	SEG1
ATOM	1051	N	LEU	71	4.042	-4.831	9.570	1.00	0.28	SEG1
ATOM	1052	HN	LEU	71	4.087	-5.567	8.921	1.00	0.31	SEG1
ATOM	1053	CA	LEU	71	4.081	-3.413	9.097	1.00	0.26	SEG1
ATOM	1054	HA	LEU	71	4.186	-2.741	9.933	1.00	0.25	SEG1
ATOM	1055	CB	LEU	71	5.316	-3.329	8.200	1.00	0.27	SEG1
ATOM	1056	HB1	LEU	71	5.213	-4.021	7.378	1.00	0.29	SEG1
ATOM	1057	HB2	LEU	71	6.196	-3.582	8.776	1.00	0.28	SEG1
ATOM	1058	CG	LEU	71	5.462	-1.908	7.650	1.00	0.27	SEG1
ATOM	1059	HG	LEU	71	4.550	-1.621	7.146	1.00	0.28	SEG1
ATOM	1060	CD1	LEU	71	5.737	-0.936	8.801	1.00	0.28	SEG1
ATOM	1061	HD11	LEU	71	4.801	-0.569	9.194	1.00	1.03	SEG1
ATOM	1062	HD12	LEU	71	6.325	-0.106	8.437	1.00	1.04	SEG1
ATOM	1063	HD13	LEU	71	6.280	-1.447	9.581	1.00	1.09	SEG1
ATOM	1064	CD2	LEU	71	6.628	-1.868	6.663	1.00	0.31	SEG1
ATOM	1065	HD21	LEU	71	6.253	-1.997	5.659	1.00	1.05	SEG1

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ATOM	1066	HD22	LEU	71	7.320	-2.662	6 894	1 00	1.05	SEG1
ATOM	1067	HD23	LEU	71	7.132	-0.917	6 740	1 00	1.09	SEG1
ATOM	1068	C	LEU	71	2.806	-3.091	8 310	1 00	0 25	SEG1
ATOM	1069	O	LEU	71	2.418	-3.825	7 421	1 00	0 27	SEG1
ATOM	1070	N	ILE	72	2.149	-2.005	8 639	1 00	0 23	SEG1
ATOM	1071	HN	ILE	72	2.478	-1.433	9 362	1 00	0 23	SEG1
ATOM	1072	CA	ILE	72	0.892	-1.642	7 917	1 00	0 23	SEG1
ATOM	1073	HA	ILE	72	0.559	-2.464	7 305	1 00	0 25	SEG1
ATOM	1074	CB	ILE	72	-0.139	-1.356	9 017	1 00	0 24	SEG1
ATOM	1075	HB	ILE	72	0 210	-0.540	9 631	1 00	0 24	SEG1
ATOM	1076	CG1	ILE	72	-0 335	-2.600	9 886	1 00	0 27	SEG1
ATOM	1077	HG11	ILE	72	0.624	-2.961	10 222	1 00	0 27	SEG1
ATOM	1078	HG12	ILE	72	-0.829	-3.364	9 312	1 00	0 30	SEG1
ATOM	1079	CG2	ILE	72	-1 481	-0.977	8 384	1 00	0 26	SEG1
ATOM	1080	HG21	ILE	72	-1.631	-1.553	7 483	1 00	1 07	SEG1
ATOM	1081	HG22	ILE	72	-1 481	0.076	8 143	1 00	1 08	SEG1
ATOM	1082	HG23	ILE	72	-2 279	-1.186	9 081	1 00	0 93	SEG1
ATOM	1083	CD1	ILE	72	-1.194	-2.239	11 097	1 00	0 30	SEG1
ATOM	1084	HD11	ILE	72	-0.584	-1.745	11 838	1 00	1.01	SEG1
ATOM	1085	HD12	ILE	72	-1 617	-3.139	11 519	1 00	1.05	SEG1
ATOM	1086	HD13	ILE	72	-1 991	-1.578	10 786	1 00	1.01	SEG1
ATOM	1087	C	ILE	72	1 114	-0.390	7 061	1.00	0.22	SEG1
ATOM	1088	O	ILE	72	1 602	0.618	7 535	1.00	0.22	SEG1
ATOM	1089	N	VAL	73	0.737	-0.446	5 811	1.00	0.23	SEG1
ATOM	1090	HN	VAL	73	0.333	-1.269	5 462	1.00	0.24	SEG1
ATOM	1091	CA	VAL	73	0.895	0.741	4 916	1.00	0.23	SEG1
ATOM	1092	HA	VAL	73	1.357	1.557	5 450	1.00	0.24	SEG1
ATOM	1093	CB	VAL	73	1.799	0.273	3 771	1.00	0.26	SEG1
ATOM	1094	HB	VAL	73	1.328	-0.551	3 255	1.00	1.09	SEG1
ATOM	1095	CG1	VAL	73	2.023	1.427	2 790	1.00	1.38	SEG1
ATOM	1096	HG11	VAL	73	2.971	1.295	2 290	1.00	1.97	SEG1
ATOM	1097	HG12	VAL	73	2.027	2.363	3 329	1.00	2.06	SEG1
ATOM	1098	HG13	VAL	73	1.229	1.436	2.059	1.00	1.87	SEG1
ATOM	1099	CG2	VAL	73	3.150	-0.178	4 334	1.00	1.35	SEG1
ATOM	1100	HG21	VAL	73	3.022	-1.098	4 885	1.00	1.90	SEG1
ATOM	1101	HG22	VAL	73	3.540	0.585	4.991	1.00	1.99	SEG1
ATOM	1102	HG23	VAL	73	3.842	-0.340	3.521	1.00	1.95	SEG1
ATOM	1103	C	VAL	73	-0.483	1.152	4.386	1.00	0.22	SEG1
ATOM	1104	O	VAL	73	-1.230	0.325	3.896	1.00	0.23	SEG1
ATOM	1105	N	GLN	74	-0.833	2.412	4.485	1.00	0.22	SEG1
ATOM	1106	HN	GLN	74	-0.219	3.066	4.891	1.00	0.24	SEG1
ATOM	1107	CA	GLN	74	-2.175	2.849	3.989	1.00	0.22	SEG1
ATOM	1108	HA	GLN	74	-2.902	2.065	4.130	1.00	0.22	SEG1
ATOM	1109	CB	GLN	74	-2.544	4.062	4.843	1.00	0.25	SEG1
ATOM	1110	HB1	GLN	74	-1.839	4.859	4.658	1.00	0.26	SEG1
ATOM	1111	HB2	GLN	74	-2.516	3.793	5.888	1.00	0.26	SEG1
ATOM	1112	CG	GLN	74	-3.952	4.536	4.468	1.00	0.28	SEG1
ATOM	1113	HG1	GLN	74	-4.634	3.699	4 510	1.00	0.28	SEG1
ATOM	1114	HG2	GLN	74	-3.940	4.938	3 466	1.00	0.28	SEG1
ATOM	1115	CD	GLN	74	-4.419	5.618	5 447	1.00	0.35	SEG1
ATOM	1116	OE1	GLN	74	-3.790	5.858	6 459	1.00	0.45	SEG1
ATOM	1117	NE2	GLN	74	-5.513	6.281	5 189	1.00	0.49	SEG1
ATOM	1118	HE21	GLN	74	-6.026	6.083	4 377	1.00	0.62	SEG1
ATOM	1119	HE22	GLN	74	-5.823	6.976	5 806	1.00	0.55	SEG1
ATOM	1120	C	GLN	74	-2.091	3.243	2 513	1.00	0 23	SEG1
ATOM	1121	O	GLN	74	-1.270	4.053	2 130	1.00	0 26	SEG1
ATOM	1122	N	LEU	75	-2.936	2.678	1 683	1.00	0 22	SEG1
ATOM	1123	HN	LEU	75	-3.589	2.029	2 018	1.00	0.22	SEG1
ATOM	1124	CA	LEU	75	-2.905	3.023	0 229	1.00	0 24	SEG1
ATOM	1125	HA	LEU	75	-2.012	3.580	-0.002	1.00	0 27	SEG1
ATOM	1126	CB	LEU	75	-2.884	1.681	-0 516	1.00	0 24	SEG1
ATOM	1127	HB1	LEU	75	-2.825	1.861	-1 580	1.00	0.30	SEG1
ATOM	1128	HB2	LEU	75	-3.792	1.138	-0 296	1.00	0.28	SEG1
ATOM	1129	CG	LEU	75	-1.673	0.841	-0 080	1.00	0 27	SEG1
ATOM	1130	HG	LEU	75	-1.797	0.552	0 954	1.00	0 62	SEG1
ATOM	1131	CD1	LEU	75	-1.597	-0.414	-0 948	1.00	0 68	SEG1
ATOM	1132	HD11	LEU	75	-1.949	-0.184	-1 943	1.00	1.14	SEG1
ATOM	1133	HD12	LEU	75	-2.214	-1.187	-0 517	1.00	1.42	SEG1
ATOM	1134	HD13	LEU	75	-0.574	-0.755	-0 998	1.00	1 28	SEG1
ATOM	1135	CD2	LEU	75	-0.372	1.642	-0 241	1.00	0.52	SEG1
ATOM	1136	HD21	LEU	75	-0.490	2.365	-1 035	1.00	1.19	SEG1
ATOM	1137	HD22	LEU	75	0.437	0.970	-0.484	1.00	1 30	SEG1
ATOM	1138	HD23	LEU	75	-0.147	2.154	0.684	1.00	1 09	SEG1
ATOM	1139	C	LEU	75	-4.152	3.830	-0.150	1.00	0.25	SEG1
ATOM	1140	O	LEU	75	-5.206	3.672	0.436	1.00	0 26	SEG1
ATOM	1141	N	ARG	76	-4.034	4.693	-1.127	1.00	0 29	SEG1
ATOM	1142	HN	ARG	76	-3.171	4.798	-1.580	1.00	0.32	SEG1

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ATOM	1143	CA	ARG	76	-5.203	5.523	-1.557	1.00	0.32	SEG1
ATOM	1144	HA	ARG	76	-6.060	5.318	-0.935	1.00	0.32	SEG1
ATOM	1145	CB	ARG	76	-4.748	6.970	-1.372	1.00	0.37	SEG1
ATOM	1146	HB1	ARG	76	-3.882	7.157	-1.989	1.00	0.64	SEG1
ATOM	1147	HB2	ARG	76	-4.494	7.139	-0.335	1.00	0.71	SEG1
ATOM	1148	CG	ARG	76	-5.876	7.920	-1.781	1.00	0.83	SEG1
ATOM	1149	HG1	ARG	76	-6.743	7.735	-1.164	1.00	1.20	SEG1
ATOM	1150	HG2	ARG	76	-6.130	7.750	-2.817	1.00	1.15	SEG1
ATOM	1151	CD	ARG	76	-5.423	9.370	-1.597	1.00	0.84	SEG1
ATOM	1152	HD1	ARG	76	-4.576	9.583	-2.230	1.00	1.07	SEG1
ATOM	1153	HD2	ARG	76	-5.177	9.558	-0.560	1.00	1.13	SEG1
ATOM	1154	NE	ARG	76	-6.597	10.197	-2.018	1.00	1.21	SEG1
ATOM	1155	HE	ARG	76	-7.484	9.782	-2.069	1.00	1.76	SEG1
ATOM	1156	CZ	ARG	76	-6.467	11.473	-2.321	1.00	1.51	SEG1
ATOM	1157	NH1	ARG	76	-7.523	12.150	-2.683	1.00	2.15	SEG1
ATOM	1158	HH11	ARG	76	-8.415	11.700	-2.726	1.00	2.53	SEG1
ATOM	1159	HH12	ARG	76	-7.440	13.119	-2.917	1.00	2.50	SEG1
ATOM	1160	NH2	ARG	76	-5.302	12.078	-2.268	1.00	1.85	SEG1
ATOM	1161	HH21	ARG	76	-4.483	11.576	-1.994	1.00	1.91	SEG1
ATOM	1162	HH22	ARG	76	-5.235	13.048	-2.505	1.00	2.40	SEG1
ATOM	1163	C	ARG	76	-5.526	5.241	-3.029	1.00	0.32	SEG1
ATOM	1164	O	ARG	76	-4.637	5.099	-3.845	1.00	0.37	SEG1
ATOM	1165	N	PHE	77	-6.790	5.165	-3.376	1.00	0.32	SEG1
ATOM	1166	HN	PHE	77	-7.492	5.289	-2.701	1.00	0.34	SEG1
ATOM	1167	CA	PHE	77	-7.160	4.895	-4.800	1.00	0.34	SEG1
ATOM	1168	HA	PHE	77	-6.278	4.660	-5.377	1.00	0.34	SEG1
ATOM	1169	CB	PHE	77	-8.093	3.683	-4.759	1.00	0.35	SEG1
ATOM	1170	HB1	PHE	77	-8.486	3.502	-5.746	1.00	0.38	SEG1
ATOM	1171	HB2	PHE	77	-8.908	3.872	-4.076	1.00	0.38	SEG1
ATOM	1172	CG	PHE	77	-7.324	2.467	-4.306	1.00	0.34	SEG1
ATOM	1173	CD1	PHE	77	-6.691	1.653	-5.253	1.00	1.33	SEG1
ATOM	1174	HD1	PHE	77	-6.750	1.900	-6.303	1.00	2.22	SEG1
ATOM	1175	CD2	PHE	77	-7.248	2.149	-2.946	1.00	1.14	SEG1
ATOM	1176	HD2	PHE	77	-7.737	2.778	-2.216	1.00	2.04	SEG1
ATOM	1177	CE1	PHE	77	-5.981	0.521	-4.839	1.00	1.37	SEG1
ATOM	1178	HE1	PHE	77	-5.493	-0.107	-5.570	1.00	2.28	SEG1
ATOM	1179	CE2	PHE	77	-6.537	1.017	-2.531	1.00	1.13	SEG1
ATOM	1180	HE2	PHE	77	-6.478	0.772	-1.480	1.00	2.01	SEG1
ATOM	1181	CZ	PHE	77	-5.904	0.203	-3.477	1.00	0.45	SEG1
ATOM	1182	HZ	PHE	77	-5.356	-0.671	-3.157	1.00	0.53	SEG1
ATOM	1183	C	PHE	77	-7.881	6.105	-5.399	1.00	0.41	SEG1
ATOM	1184	O	PHE	77	-8.479	6.894	-4.693	1.00	0.45	SEG1
ATOM	1185	N	CYS	78	-7.815	6.257	-6.696	1.00	0.48	SEG1
ATOM	1186	HN	CYS	78	-7.319	5.608	-7.233	1.00	0.52	SEG1
ATOM	1187	CA	CYS	78	-8.484	7.423	-7.356	1.00	0.55	SEG1
ATOM	1188	HA	CYS	78	-9.355	7.722	-6.795	1.00	0.58	SEG1
ATOM	1189	CB	CYS	78	-7.438	8.538	-7.320	1.00	0.65	SEG1
ATOM	1190	HB1	CYS	78	-6.626	8.291	-7.989	1.00	0.80	SEG1
ATOM	1191	HB2	CYS	78	-7.056	8.641	-6.315	1.00	0.92	SEG1
ATOM	1192	SG	CYS	78	-8.194	10.098	-7.840	1.00	1.03	SEG1
ATOM	1193	HG	CYS	78	-9.034	9.895	-8.259	1.00	1.50	SEG1
ATOM	1194	C	CYS	78	-8.869	7.094	-8.807	1.00	0.53	SEG1
ATOM	1195	O	CYS	78	-9.898	7.525	-9.293	1.00	0.60	SEG1
ATOM	1196	N	GLY	79	-8.051	6.342	-9.499	1.00	0.50	SEG1
ATOM	1197	HN	GLY	79	-7.232	6.011	-9.087	1.00	0.52	SEG1
ATOM	1198	CA	GLY	79	-8.359	5.990	-10.917	1.00	0.52	SEG1
ATOM	1199	HA1	GLY	79	-7.461	6.072	-11.510	1.00	0.57	SEG1
ATOM	1200	HA2	GLY	79	-9.106	6.671	-11.300	1.00	0.57	SEG1
ATOM	1201	C	GLY	79	-8.887	4.557	-10.998	1.00	0.44	SEG1
ATOM	1202	O	GLY	79	-8.355	3.654	-10.379	1.00	0.39	SEG1
ATOM	1203	N	ARG	80	-9.926	4.344	-11.762	1.00	0.48	SEG1
ATOM	1204	HN	ARG	80	-10.329	5.093	-12.252	1.00	0.54	SEG1
ATOM	1205	CA	ARG	80	-10.498	2.968	-11.900	1.00	0.47	SEG1
ATOM	1206	HA	ARG	80	-10.700	2.549	-10.927	1.00	0.46	SEG1
ATOM	1207	CB	ARG	80	-11.810	3.158	-12.668	1.00	0.57	SEG1
ATOM	1208	HB1	ARG	80	-11.602	3.592	-13.634	1.00	1.05	SEG1
ATOM	1209	HB2	ARG	80	-12.461	3.816	-12.110	1.00	1.00	SEG1
ATOM	1210	CG	ARG	80	-12.497	1.804	-12.859	1.00	1.37	SEG1
ATOM	1211	HG1	ARG	80	-12.708	1.367	-11.894	1.00	1.87	SEG1
ATOM	1212	HG2	ARG	80	-11.846	1.147	-13.417	1.00	1.95	SEG1
ATOM	1213	CD	ARG	80	-13.806	1.999	-13.626	1.00	1.53	SEG1
ATOM	1214	HD1	ARG	80	-13.604	2.294	-14.644	1.00	1.92	SEG1
ATOM	1215	HD2	ARG	80	-14.421	2.740	-13.134	1.00	1.71	SEG1
ATOM	1216	NE	ARG	80	-14.477	0.662	-13.605	1.00	2.30	SEG1
ATOM	1217	HE	ARG	80	-14.158	-0.027	-12.984	1.00	2.85	SEG1
ATOM	1218	CZ	ARG	80	-15.495	0.392	-14.397	1.00	2.84	SEG1
ATOM	1219	NH1	ARG	80	-16.058	-0.783	-14.331	1.00	3.87	SEG1

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ATOM	1220	HH11	ARG	80	-15.716	-1.465	-13.685	1.00	4.32	SEG1
ATOM	1221	HH12	ARG	80	-16.832	-1.001	-14.926	1.00	4.40	SEG1
ATOM	1222	NH2	ARG	80	-15.953	1.276	-15.255	1.00	2.85	SEG1
ATOM	1223	HH21	ARG	80	-15.533	2.181	-15.325	1.00	2.56	SEG1
ATOM	1224	HH22	ARG	80	-16.729	1.042	-15.843	1.00	3.51	SEG1
ATOM	1225	C	ARG	80	-9.537	2.062	-12.685	1.00	0.43	SEG1
ATOM	1226	O	ARG	80	-9.369	0.900	-12.366	1.00	0.41	SEG1
ATOM	1227	N	GLN	81	-8.919	2.584	-13.715	1.00	0.45	SEG1
ATOM	1228	HN	GLN	81	-9.082	3.521	-13.954	1.00	0.50	SEG1
ATOM	1229	CA	GLN	81	-7.978	1.757	-14.538	1.00	0.45	SEG1
ATOM	1230	HA	GLN	81	-8.518	0.952	-15.012	1.00	0.47	SEG1
ATOM	1231	CB	GLN	81	-7.437	2.708	-15.611	1.00	0.51	SEG1
ATOM	1232	HB1	GLN	81	-6.520	2.310	-16.019	1.00	0.53	SEG1
ATOM	1233	HB2	GLN	81	-7.248	3.676	-15.172	1.00	0.51	SEG1
ATOM	1234	CG	GLN	81	-8.474	2.849	-16.729	1.00	0.57	SEG1
ATOM	1235	HG1	GLN	81	-9.329	3.394	-16.358	1.00	0.93	SEG1
ATOM	1236	HG2	GLN	81	-8.787	1.867	-17.054	1.00	1.00	SEG1
ATOM	1237	CD	GLN	81	-7.863	3.607	-17.909	1.00	1.27	SEG1
ATOM	1238	OE1	GLN	81	-6.983	4.425	-17.732	1.00	1.91	SEG1
ATOM	1239	NE2	GLN	81	-8.299	3.368	-19.116	1.00	2.02	SEG1
ATOM	1240	HE21	GLN	81	-9.010	2.708	-19.259	1.00	2.34	SEG1
ATOM	1241	HE22	GLN	81	-7.917	3.849	-19.880	1.00	2.61	SEG1
ATOM	1242	C	GLN	81	-6.834	1.182	-13.678	1.00	0.41	SEG1
ATOM	1243	O	GLN	81	-6.637	-0.018	-13.664	1.00	0.40	SEG1
ATOM	1244	N	PRO	82	-6.113	2.035	-12.975	1.00	0.40	SEG1
ATOM	1245	CA	PRO	82	-5.002	1.541	-12.119	1.00	0.39	SEG1
ATOM	1246	HA	PRO	82	-4.301	0.972	-12.709	1.00	0.41	SEG1
ATOM	1247	CB	PRO	82	-4.332	2.818	-11.614	1.00	0.42	SEG1
ATOM	1248	HB1	PRO	82	-3.488	3.078	-12.233	1.00	0.47	SEG1
ATOM	1249	HB2	PRO	82	-4.023	2.698	-10.584	1.00	0.42	SEG1
ATOM	1250	CG	PRO	82	-5.382	3.868	-11.719	1.00	0.43	SEG1
ATOM	1251	HG1	PRO	82	-4.921	4.825	-11.895	1.00	0.47	SEG1
ATOM	1252	HG2	PRO	82	-5.973	3.894	-10.814	1.00	0.41	SEG1
ATOM	1253	CD	PRO	82	-6.244	3.499	-12.896	1.00	0.44	SEG1
ATOM	1254	HD2	PRO	82	-7.265	3.790	-12.715	1.00	0.45	SEG1
ATOM	1255	HD1	PRO	82	-5.868	3.956	-13.798	1.00	0.48	SEG1
ATOM	1256	C	PRO	82	-5.539	0.688	-10.964	1.00	0.35	SEG1
ATOM	1257	O	PRO	82	-4.823	-0.122	-10.404	1.00	0.38	SEG1
ATOM	1258	N	CYS	83	-6.793	0.847	-10.614	1.00	0.31	SEG1
ATOM	1259	HN	CYS	83	-7.356	1.496	-11.086	1.00	0.32	SEG1
ATOM	1260	CA	CYS	83	-7.370	0.024	-9.507	1.00	0.30	SEG1
ATOM	1261	HA	CYS	83	-6.782	0.134	-8.608	1.00	0.31	SEG1
ATOM	1262	CB	CYS	83	-8.783	0.568	-9.282	1.00	0.34	SEG1
ATOM	1263	HB1	CYS	83	-9.409	0.301	-10.121	1.00	0.66	SEG1
ATOM	1264	HB2	CYS	83	-8.745	1.643	-9.188	1.00	0.77	SEG1
ATOM	1265	SG	CYS	83	-9.469	-0.147	-7.767	1.00	0.99	SEG1
ATOM	1266	HG	CYS	83	-10.419	-0.228	-7.881	1.00	1.67	SEG1
ATOM	1267	C	CYS	83	-7.422	-1.444	-9.938	1.00	0.29	SEG1
ATOM	1268	O	CYS	83	-7.020	-2.331	-9.209	1.00	0.28	SEG1
ATOM	1269	N	GLY	84	-7.908	-1.700	-11.129	1.00	0.30	SEG1
ATOM	1270	HN	GLY	84	-8.216	-0.962	-11.696	1.00	0.32	SEG1
ATOM	1271	CA	GLY	84	-7.984	-3.104	-11.635	1.00	0.31	SEG1
ATOM	1272	HA1	GLY	84	-8.409	-3.109	-12.627	1.00	0.33	SEG1
ATOM	1273	HA2	GLY	84	-8.606	-3.691	-10.973	1.00	0.31	SEG1
ATOM	1274	C	GLY	84	-6.579	-3.706	-11.684	1.00	0.30	SEG1
ATOM	1275	O	GLY	84	-6.374	-4.861	-11.358	1.00	0.30	SEG1
ATOM	1276	N	ARG	85	-5.609	-2.928	-12.090	1.00	0.31	SEG1
ATOM	1277	HN	ARG	85	-5.804	-2.002	-12.347	1.00	0.32	SEG1
ATOM	1278	CA	ARG	85	-4.209	-3.444	-12.158	1.00	0.32	SEG1
ATOM	1279	HA	ARG	85	-4.174	-4.358	-12.731	1.00	0.34	SEG1
ATOM	1280	CB	ARG	85	-3.404	-2.351	-12.866	1.00	0.35	SEG1
ATOM	1281	HB1	ARG	85	-2.351	-2.578	-12.797	1.00	0.70	SEG1
ATOM	1282	HB2	ARG	85	-3.600	-1.398	-12.396	1.00	0.87	SEG1
ATOM	1283	CG	ARG	85	-3.814	-2.286	-14.339	1.00	0.87	SEG1
ATOM	1284	HG1	ARG	85	-4.866	-2.058	-14.411	1.00	1.41	SEG1
ATOM	1285	HG2	ARG	85	-3.618	-3.239	-14.810	1.00	1.40	SEG1
ATOM	1286	CD	ARG	85	-3.009	-1.193	-15.048	1.00	1.12	SEG1
ATOM	1287	HD1	ARG	85	-1.958	-1.439	-15.049	1.00	1.59	SEG1
ATOM	1288	HD2	ARG	85	-3.174	-0.237	-14.569	1.00	1.64	SEG1
ATOM	1289	NE	ARG	85	-3.530	-1.173	-16.451	1.00	1.63	SEG1
ATOM	1290	HE	ARG	85	-4.064	-1.928	-16.777	1.00	2.16	SEG1
ATOM	1291	CZ	ARG	85	-3.292	-0.158	-17.259	1.00	2.06	SEG1
ATOM	1292	NH1	ARG	85	-3.780	-0.179	-18.469	1.00	2.88	SEG1
ATOM	1293	HH11	ARG	85	-4.327	-0.959	-18.773	1.00	3.33	SEG1
ATOM	1294	HH12	ARG	85	-3.608	0.584	-19.091	1.00	3.28	SEG1
ATOM	1295	NH2	ARG	85	-2.572	0.373	-16.877	1.00	2.26	SEG1
ATOM	1296	HH21	ARG	85	-2.186	0.908	-15.956	1.00	2.26	SEG1

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ATOM	1327	HH22	ARG	85	-2.411	.628	-17.513	1.00	2.81	SEG1
ATOM	1328	C	ARG	85	-3.672	-2.680	-10.741	1.00	0.29	SEG1
ATOM	1329	O	ARG	85	-2.915	-4.600	-10.501	1.00	0.29	SEG1
ATOM	1330	N	PHE	86	-4.055	-1.643	-9.808	1.00	0.27	SEG1
ATOM	1331	HN	PHE	86	-4.661	-2.106	-10.038	1.00	0.28	SEG1
ATOM	1332	CA	PHE	86	-3.563	-2.999	-8.400	1.00	0.26	SEG1
ATOM	1333	HA	PHE	86	-2.493	-2.880	-8.380	1.00	0.28	SEG1
ATOM	1334	CB	PHE	86	-4.245	-1.859	-7.626	1.00	0.27	SEG1
ATOM	1335	HB1	PHE	86	-5.317	-1.950	-7.727	1.00	0.28	SEG1
ATOM	1336	HB2	PHE	86	-3.927	-0.911	-8.034	1.00	0.28	SEG1
ATOM	1337	CG	PHE	86	-3.875	-2.918	-6.159	1.00	0.25	SEG1
ATOM	1338	CD1	PHE	86	-4.611	-2.735	-5.292	1.00	1.23	SEG1
ATOM	1339	HD1	PHE	86	-5.430	-3.327	-5.675	1.00	2.16	SEG1
ATOM	1340	CD2	PHE	86	-2.813	-1.149	-5.663	1.00	1.24	SEG1
ATOM	1341	HD2	PHE	86	-2.242	-0.517	-6.330	1.00	2.17	SEG1
ATOM	1342	CE1	PHE	86	-4.286	-2.768	-3.932	1.00	1.23	SEG1
ATOM	1343	HE1	PHE	86	-4.855	-3.420	-3.265	1.00	2.16	SEG1
ATOM	1344	CE2	PHE	86	-2.488	-1.203	-4.300	1.00	1.24	SEG1
ATOM	1345	HE2	PHE	86	-1.671	-0.609	-3.914	1.00	2.17	SEG1
ATOM	1346	CZ	PHE	86	-3.225	-2.022	-3.435	1.00	0.26	SEG1
ATOM	1347	HZ	PHE	86	-2.974	-2.063	-2.385	1.00	0.28	SEG1
ATOM	1348	C	PHE	86	-3.973	-4.364	-7.822	1.00	0.25	SEG1
ATOM	1349	O	PHE	86	-3.152	-5.079	-7.278	1.00	0.27	SEG1
ATOM	1350	N	LEU	87	-5.229	-4.726	-7.926	1.00	0.25	SEG1
ATOM	1351	HN	LEU	87	-5.875	-4.131	-8.358	1.00	0.25	SEG1
ATOM	1352	CA	LEU	87	-5.673	-6.045	-7.366	1.00	0.25	SEG1
ATOM	1353	HA	LEU	87	-5.279	-6.160	-6.369	1.00	0.26	SEG1
ATOM	1354	CB	LEU	87	-7.210	-5.988	-7.297	1.00	0.26	SEG1
ATOM	1355	HB1	LEU	87	-7.506	-5.182	-6.641	1.00	0.27	SEG1
ATOM	1356	HB2	LEU	87	-7.580	-6.922	-6.899	1.00	0.28	SEG1
ATOM	1357	CG	LEU	87	-7.818	-5.758	-8.685	1.00	0.28	SEG1
ATOM	1358	HG	LEU	87	-7.108	-5.253	-9.314	1.00	0.28	SEG1
ATOM	1359	CD1	LEU	87	-8.194	-7.100	-9.314	1.00	0.32	SEG1
ATOM	1360	HD11	LEU	87	-9.169	-7.402	-8.963	1.00	1.08	SEG1
ATOM	1361	HD12	LEU	87	-7.465	-7.846	-9.036	1.00	1.03	SEG1
ATOM	1362	HD13	LEU	87	-8.215	-7.000	-10.389	1.00	1.05	SEG1
ATOM	1363	CD2	LEU	87	-9.078	-4.897	-8.551	1.00	0.30	SEG1
ATOM	1364	HD21	LEU	87	-8.798	-3.887	-8.293	1.00	1.03	SEG1
ATOM	1365	HD22	LEU	87	-9.711	-5.304	-7.778	1.00	1.02	SEG1
ATOM	1366	HD23	LEU	87	-9.612	-4.893	-9.490	1.00	1.08	SEG1
ATOM	1367	C	LEU	87	-5.191	-7.214	-8.241	1.00	0.25	SEG1
ATOM	1368	O	LEU	87	-4.769	-8.240	-7.732	1.00	0.27	SEG1
ATOM	1369	N	ARG	88	-5.240	-7.072	-9.544	1.00	0.26	SEG1
ATOM	1370	HN	ARG	88	-5.573	-6.239	-9.934	1.00	0.26	SEG1
ATOM	1371	CA	ARG	88	-4.777	-8.183	-10.434	1.00	0.27	SEG1
ATOM	1372	HA	ARG	88	-5.320	-9.088	-10.219	1.00	0.28	SEG1
ATOM	1373	CB	ARG	88	-5.079	-7.716	-11.860	1.00	0.29	SEG1
ATOM	1374	HB1	ARG	88	-4.464	-6.862	-12.099	1.00	0.79	SEG1
ATOM	1375	HB2	ARG	88	-6.122	-7.443	-11.936	1.00	0.79	SEG1
ATOM	1376	CG	ARG	88	-4.774	-8.850	-12.841	1.00	1.08	SEG1
ATOM	1377	HG1	ARG	88	-5.390	-9.705	-12.604	1.00	1.57	SEG1
ATOM	1378	HG2	ARG	88	-3.732	-9.123	-12.761	1.00	1.56	SEG1
ATOM	1379	CD	ARG	88	-5.075	-8.391	-14.270	1.00	1.09	SEG1
ATOM	1380	HD1	ARG	88	-4.345	-7.665	-14.593	1.00	1.19	SEG1
ATOM	1381	HD2	ARG	88	-6.072	-7.977	-14.328	1.00	1.44	SEG1
ATOM	1382	NE	ARG	88	-4.972	-9.628	-15.109	1.00	2.05	SEG1
ATOM	1383	HE	ARG	88	-4.837	-10.496	-14.674	1.00	2.70	SEG1
ATOM	1384	CZ	ARG	88	-5.058	-9.575	-16.423	1.00	2.54	SEG1
ATOM	1385	NH1	ARG	88	-4.962	-10.680	-17.111	1.00	3.60	SEG1
ATOM	1386	HH11	ARG	88	-4.825	-11.552	-16.640	1.00	4.10	SEG1
ATOM	1387	HH12	ARG	88	-5.026	-10.655	-18.108	1.00	4.07	SEG1
ATOM	1388	NH2	ARG	88	-5.240	-8.439	-17.056	1.00	2.48	SEG1
ATOM	1389	HH21	ARG	88	-5.318	-7.583	-16.548	1.00	2.17	SEG1
ATOM	1390	HH22	ARG	88	-5.301	-8.432	-18.054	1.00	3.15	SEG1
ATOM	1391	C	ARG	88	-3.278	-8.413	-10.244	1.00	0.28	SEG1
ATOM	1392	O	ARG	88	-2.823	-9.536	-10.140	1.00	0.30	SEG1
ATOM	1393	N	ALA	89	-2.514	-7.354	-10.182	1.00	0.29	SEG1
ATOM	1394	HN	ALA	89	-2.912	-6.461	-10.258	1.00	0.29	SEG1
ATOM	1395	CA	ALA	89	-1.041	-7.500	-9.980	1.00	0.31	SEG1
ATOM	1396	HA	ALA	89	-0.633	-8.202	-10.690	1.00	0.33	SEG1
ATOM	1397	CB	ALA	89	-0.457	-6.110	-10.226	1.00	0.35	SEG1
ATOM	1398	HB1	ALA	89	0.588	-6.201	-10.481	1.00	1.03	SEG1
ATOM	1399	HB2	ALA	89	-0.560	-5.513	-9.331	1.00	1.04	SEG1
ATOM	1400	HB3	ALA	89	-0.986	-5.635	-11.039	1.00	1.09	SEG1
ATOM	1401	C	ALA	89	-0.750	-7.957	-8.549	1.00	0.30	SEG1
ATOM	1402	O	ALA	89	0.284	-8.537	-8.273	1.00	0.31	SEG1
ATOM	1403	N	TYR	90	-1.651	-7.689	-7.634	1.00	0.30	SEG1

ATOM	1374	HN	TYR	90	-2.471	-7.213	-7.781	1.00	0.30	SEG1
ATOM	1375	CA	TYR	90	-1.427	-8.096	-6.114	1.00	0.31	SEG1
ATOM	1376	HA	TYR	90	-0.554	-7.599	-5.719	1.00	0.34	SEG1
ATOM	1377	CB	TYR	90	-2.676	-7.634	-5.758	1.00	0.33	SEG1
ATOM	1378	HB1	TYR	90	-3.544	-8.133	-5.859	1.00	0.41	SEG1
ATOM	1379	HB2	TYR	90	-2.790	-6.565	-5.572	1.00	0.34	SEG1
ATOM	1380	CG	TYR	90	-2.535	-7.972	-3.994	1.00	0.44	SEG1
ATOM	1381	CD1	TYR	90	-1.951	-7.050	-3.117	1.00	1.36	SEG1
ATOM	1382	HD1	TYR	90	-1.603	-6.097	-3.488	1.00	2.21	SEG1
ATOM	1383	CD2	TYR	90	-2.984	-9.207	-3.514	1.00	1.28	SEG1
ATOM	1384	HD2	TYR	90	-3.436	-9.918	-4.191	1.00	2.18	SEG1
ATOM	1385	CE1	TYR	90	-1.818	-7.363	-1.761	1.00	1.49	SEG1
ATOM	1386	HE1	TYR	90	-1.367	-6.653	-1.084	1.00	2.40	SEG1
ATOM	1387	CE2	TYR	90	-2.850	-9.520	-2.158	1.00	1.32	SEG1
ATOM	1388	HE2	TYR	90	-3.192	-10.475	-1.788	1.00	2.17	SEG1
ATOM	1389	CZ	TYR	90	-2.266	-8.597	-1.282	1.00	0.83	SEG1
ATOM	1390	OH	TYR	90	-2.139	-8.902	0.055	1.00	1.04	SEG1
ATOM	1391	HH	TYR	90	-1.881	-9.824	0.126	1.00	1.37	SEG1
ATOM	1392	C	TYR	90	-1.263	-9.617	-6.114	1.00	0.31	SEG1
ATOM	1393	O	TYR	90	-0.349	-10.104	-5.475	1.00	0.33	SEG1
ATOM	1394	N	ARG	91	-2.138	-10.373	-6.741	1.00	0.31	SEG1
ATOM	1395	HN	ARG	91	-2.868	-9.958	-7.252	1.00	0.32	SEG1
ATOM	1396	CA	ARG	91	-2.015	-11.866	-6.674	1.00	0.34	SEG1
ATOM	1397	HA	ARG	91	-2.099	-12.206	-5.657	1.00	0.38	SEG1
ATOM	1398	CB	ARG	91	-3.175	-12.418	-7.509	1.00	0.39	SEG1
ATOM	1399	HB1	ARG	91	-3.089	-12.066	-8.525	1.00	0.91	SEG1
ATOM	1400	HB2	ARG	91	-4.111	-12.081	-7.087	1.00	0.81	SEG1
ATOM	1401	CG	ARG	91	-3.130	-13.950	-7.493	1.00	1.12	SEG1
ATOM	1402	HG1	ARG	91	-3.219	-14.301	-6.475	1.00	1.64	SEG1
ATOM	1403	HG2	ARG	91	-2.190	-14.285	-7.908	1.00	1.67	SEG1
ATOM	1404	CD	ARG	91	-4.287	-14.512	-8.325	1.00	1.16	SEG1
ATOM	1405	HD1	ARG	91	-4.191	-14.204	-9.355	1.00	1.49	SEG1
ATOM	1406	HD2	ARG	91	-5.235	-14.185	-7.920	1.00	1.29	SEG1
ATOM	1407	NE	ARG	91	-4.160	-16.002	-8.224	1.00	2.06	SEG1
ATOM	1408	HE	ARG	91	-3.413	-16.391	-7.720	1.00	2.61	SEG1
ATOM	1409	CZ	ARG	91	-5.036	-16.806	-8.796	1.00	2.58	SEG1
ATOM	1410	NH1	ARG	91	-4.891	-18.097	-8.674	1.00	3.56	SEG1
ATOM	1411	HH11	ARG	91	-4.124	-18.466	-8.151	1.00	4.00	SEG1
ATOM	1412	HH12	ARG	91	-5.549	-18.716	-9.103	1.00	4.01	SEG1
ATOM	1413	NH2	ARG	91	-6.050	-16.338	-9.487	1.00	2.55	SEG1
ATOM	1414	HH21	ARG	91	-6.180	-15.354	-9.595	1.00	2.26	SEG1
ATOM	1415	HH22	ARG	91	-6.698	-16.973	-9.908	1.00	3.16	SEG1
ATOM	1416	C	ARG	91	-0.668	-12.297	-7.258	1.00	0.32	SEG1
ATOM	1417	O	ARG	91	-0.004	-13.170	-6.730	1.00	0.33	SEG1
ATOM	1418	N	GLU	92	-0.251	-11.671	-8.328	1.00	0.30	SEG1
ATOM	1419	HN	GLU	92	-0.802	-10.957	-8.721	1.00	0.31	SEG1
ATOM	1420	CA	GLU	92	1.070	-12.021	-8.933	1.00	0.32	SEG1
ATOM	1421	HA	GLU	92	1.090	-13.061	-9.213	1.00	0.34	SEG1
ATOM	1422	CB	GLU	92	1.201	-11.139	-10.177	1.00	0.38	SEG1
ATOM	1423	HB1	GLU	92	2.205	-11.212	-10.567	1.00	0.42	SEG1
ATOM	1424	HB2	GLU	92	0.989	-10.112	-9.914	1.00	0.38	SEG1
ATOM	1425	CG	GLU	92	0.206	-11.612	-11.243	1.00	0.42	SEG1
ATOM	1426	HG1	GLU	92	-0.798	-11.545	-10.851	1.00	0.56	SEG1
ATOM	1427	HG2	GLU	92	0.421	-12.638	-11.500	1.00	0.63	SEG1
ATOM	1428	CD	GLU	92	0.317	-10.739	-12.503	1.00	0.87	SEG1
ATOM	1429	OE1	GLU	92	-0.277	-11.108	-13.503	1.00	1.48	SEG1
ATOM	1430	OE2	GLU	92	0.983	-9.715	-12.449	1.00	1.58	SEG1
ATOM	1431	C	GLU	92	2.187	-11.716	-7.931	1.00	0.33	SEG1
ATOM	1432	O	GLU	92	3.138	-12.462	-7.796	1.00	0.35	SEG1
ATOM	1433	N	GLY	93	2.068	-10.618	-7.229	1.00	0.35	SEG1
ATOM	1434	HN	GLY	93	1.289	-10.040	-7.363	1.00	0.35	SEG1
ATOM	1435	CA	GLY	93	3.107	-10.238	-6.226	1.00	0.40	SEG1
ATOM	1436	HA1	GLY	93	2.839	-9.297	-5.770	1.00	0.45	SEG1
ATOM	1437	HA2	GLY	93	4.062	-10.137	-6.722	1.00	0.43	SEG1
ATOM	1438	C	GLY	93	3.208	-11.314	-5.141	1.00	0.37	SEG1
ATOM	1439	O	GLY	93	4.291	-11.691	-4.733	1.00	0.39	SEG1
ATOM	1440	N	ALA	94	2.089	-11.816	-4.671	1.00	0.37	SEG1
ATOM	1441	HN	ALA	94	1.229	-11.498	-5.017	1.00	0.37	SEG1
ATOM	1442	CA	ALA	94	2.125	-12.877	-3.611	1.00	0.41	SEG1
ATOM	1443	HA	ALA	94	2.591	-12.499	-2.714	1.00	0.46	SEG1
ATOM	1444	CB	ALA	94	0.661	-13.227	-3.336	1.00	0.47	SEG1
ATOM	1445	HB1	ALA	94	0.613	-14.032	-2.617	1.00	1.13	SEG1
ATOM	1446	HB2	ALA	94	0.186	-13.536	-4.255	1.00	1.16	SEG1
ATOM	1447	HB3	ALA	94	0.152	-12.361	-2.941	1.00	1.08	SEG1
ATOM	1448	C	ALA	94	2.882	-14.100	-4.134	1.00	0.36	SEG1
ATOM	1449	O	ALA	94	3.673	-14.708	-3.435	1.00	0.39	SEG1
ATOM	1450	N	LEU	95	2.654	-14.446	-5.373	1.00	0.32	SEG1

ATOM	1451	HN	LEU	95	2.023	-13.923	-5.914	1.00	0.31	SEG1
ATOM	1452	CA	LEU	95	3.364	-15.612	-5.978	1.00	0.34	SEG1
ATOM	1453	HA	LEU	95	3.152	-16.510	-5.423	1.00	0.39	SEG1
ATOM	1454	CB	LEU	95	2.804	-15.722	-7.395	1.00	0.35	SEG1
ATOM	1455	HB1	LEU	95	3.329	-16.496	-7.933	1.00	0.40	SEG1
ATOM	1456	HB2	LEU	95	2.926	-14.777	-7.907	1.00	0.33	SEG1
ATOM	1457	CG	LEU	95	1.318	-16.077	-7.312	1.00	0.39	SEG1
ATOM	1458	HG	LEU	95	0.885	-15.596	-6.446	1.00	0.39	SEG1
ATOM	1459	CD1	LEU	95	0.591	-15.596	-8.574	1.00	0.39	SEG1
ATOM	1460	HD11	LEU	95	-0.039	-16.386	-8.955	1.00	1.13	SEG1
ATOM	1461	HD12	LEU	95	1.314	-15.318	-9.326	1.00	1.12	SEG1
ATOM	1462	HD13	LEU	95	-0.020	-14.738	-8.328	1.00	1.04	SEG1
ATOM	1463	CD2	LEU	95	1.170	-17.596	-7.176	1.00	0.55	SEG1
ATOM	1464	HD21	LEU	95	1.790	-18.086	-7.912	1.00	1.27	SEG1
ATOM	1465	HD22	LEU	95	0.137	-17.873	-7.332	1.00	1.12	SEG1
ATOM	1466	HD23	LEU	95	1.478	-17.901	-6.186	1.00	1.12	SEG1
ATOM	1467	C	LEU	95	4.867	-15.330	-5.990	1.00	0.33	SEG1
ATOM	1468	O	LEU	95	5.677	-16.193	-5.713	1.00	0.38	SEG1
ATOM	1469	N	ARG	96	5.235	-14.111	-6.293	1.00	0.32	SEG1
ATOM	1470	HN	ARG	96	4.553	-13.438	-6.497	1.00	0.31	SEG1
ATOM	1471	CA	ARG	96	6.681	-13.734	-6.311	1.00	0.39	SEG1
ATOM	1472	HA	ARG	96	7.212	-14.310	-7.051	1.00	0.43	SEG1
ATOM	1473	CB	ARG	96	6.715	-12.247	-6.679	1.00	0.46	SEG1
ATOM	1474	HB1	ARG	96	6.207	-11.676	-5.917	1.00	1.01	SEG1
ATOM	1475	HB2	ARG	96	6.223	-12.099	-7.629	1.00	0.84	SEG1
ATOM	1476	CG	ARG	96	8.170	-11.783	-6.775	1.00	1.29	SEG1
ATOM	1477	HG1	ARG	96	8.680	-12.356	-7.535	1.00	1.76	SEG1
ATOM	1478	HG2	ARG	96	8.657	-11.934	-5.824	1.00	2.06	SEG1
ATOM	1479	CD	ARG	96	8.216	-10.299	-7.143	1.00	1.52	SEG1
ATOM	1480	HD1	ARG	96	9.233	-9.938	-7.124	1.00	1.96	SEG1
ATOM	1481	HD2	ARG	96	7.599	-9.726	-6.465	1.00	1.67	SEG1
ATOM	1482	NE	ARG	96	7.673	-10.230	-8.534	1.00	2.44	SEG1
ATOM	1483	HE	ARG	96	6.756	-9.913	-8.674	1.00	2.95	SEG1
ATOM	1484	CZ	ARG	96	8.400	-10.582	-9.576	1.00	3.12	SEG1
ATOM	1485	NH1	ARG	96	7.881	-10.497	-10.771	1.00	4.14	SEG1
ATOM	1486	HH11	ARG	96	6.944	-10.169	-10.887	1.00	4.47	SEG1
ATOM	1487	HH12	ARG	96	8.421	-10.762	-11.571	1.00	4.77	SEG1
ATOM	1488	NH2	ARG	96	9.632	-11.019	-9.440	1.00	3.27	SEG1
ATOM	1489	HH21	ARG	96	10.046	-11.094	-8.534	1.00	2.90	SEG1
ATOM	1490	HH22	ARG	96	10.159	-11.279	-10.249	1.00	4.07	SEG1
ATOM	1491	C	ARG	96	7.289	-13.955	-4.922	1.00	0.40	SEG1
ATOM	1492	O	ARG	96	8.434	-14.341	-4.790	1.00	0.46	SEG1
ATOM	1493	N	ALA	97	6.523	-13.714	-3.884	1.00	0.40	SEG1
ATOM	1494	HN	ALA	97	5.603	-13.403	-4.021	1.00	0.38	SEG1
ATOM	1495	CA	ALA	97	7.048	-13.910	-2.495	1.00	0.46	SEG1
ATOM	1496	HA	ALA	97	7.867	-13.237	-2.302	1.00	0.51	SEG1
ATOM	1497	CB	ALA	97	5.874	-13.592	-1.568	1.00	0.52	SEG1
ATOM	1498	HB1	ALA	97	6.194	-13.678	-0.541	1.00	1.09	SEG1
ATOM	1499	HB2	ALA	97	5.071	-14.289	-1.752	1.00	1.19	SEG1
ATOM	1500	HB3	ALA	97	5.530	-12.586	-1.755	1.00	1.12	SEG1
ATOM	1501	C	ALA	97	7.491	-15.361	-2.312	1.00	0.46	SEG1
ATOM	1502	O	ALA	97	8.513	-15.635	-1.711	1.00	0.50	SEG1
ATOM	1503	N	ALA	98	6.739	-16.288	-2.845	1.00	0.46	SEG1
ATOM	1504	HN	ALA	98	5.928	-16.034	-3.337	1.00	0.43	SEG1
ATOM	1505	CA	ALA	98	7.128	-17.728	-2.728	1.00	0.51	SEG1
ATOM	1506	HA	ALA	98	7.177	-18.023	-1.692	1.00	0.56	SEG1
ATOM	1507	CB	ALA	98	6.029	-18.510	-3.452	1.00	0.55	SEG1
ATOM	1508	HB1	ALA	98	6.167	-18.422	-4.520	1.00	1.20	SEG1
ATOM	1509	HB2	ALA	98	5.064	-18.110	-3.180	1.00	1.10	SEG1
ATOM	1510	HB3	ALA	98	6.081	-19.551	-3.167	1.00	1.06	SEG1
ATOM	1511	C	ALA	98	8.484	-17.938	-3.411	1.00	0.52	SEG1
ATOM	1512	O	ALA	98	9.337	-18.652	-2.922	1.00	0.57	SEG1
ATOM	1513	N	LEU	99	8.684	-17.296	-4.536	1.00	0.50	SEG1
ATOM	1514	HN	LEU	99	7.978	-16.717	-4.895	1.00	0.47	SEG1
ATOM	1515	CA	LEU	99	9.983	-17.421	-5.265	1.00	0.55	SEG1
ATOM	1516	HA	LEU	99	10.159	-18.448	-5.546	1.00	0.60	SEG1
ATOM	1517	CB	LEU	99	9.840	-16.549	-6.517	1.00	0.57	SEG1
ATOM	1518	HB1	LEU	99	9.677	-15.524	-6.223	1.00	0.54	SEG1
ATOM	1519	HB2	LEU	99	9.001	-16.895	-7.101	1.00	0.58	SEG1
ATOM	1520	CG	LEU	99	11.118	-16.638	-7.356	1.00	0.66	SEG1
ATOM	1521	HG	LEU	99	11.953	-16.885	-6.717	1.00	0.67	SEG1
ATOM	1522	CD1	LEU	99	10.956	-17.726	-8.419	1.00	0.73	SEG1
ATOM	1523	HD11	LEU	99	11.553	-17.476	-9.284	1.00	1.16	SEG1
ATOM	1524	HD12	LEU	99	9.917	-17.796	-8.708	1.00	1.14	SEG1
ATOM	1525	HD13	LEU	99	11.282	-18.673	-8.017	1.00	1.42	SEG1
ATOM	1526	CD2	LEU	99	11.376	-15.291	-8.036	1.00	0.70	SEG1
ATOM	1527	HD21	LEU	99	12.164	-15.401	-8.767	1.00	1.16	SEG1

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ATOM	1528	HD22	LEU	99	11.673	-14.565	-7.293	1.00	1.32	SEG1
ATOM	1529	HD23	LEU	99	10.474	-14.956	-8.527	1.00	1.12	SEG1
ATOM	1530	C	LEU	99	11.121	-16.906	-4.378	1.00	0.54	SEG1
ATOM	1531	O	LEU	99	12.204	-17.457	-4.362	1.00	0.59	SEG1
ATOM	1532	N	GLN	100	10.881	-15.843	-3.648	1.00	0.50	SEG1
ATOM	1533	HN	GLN	100	9.999	-15.415	-3.636	1.00	0.47	SEG1
ATOM	1534	CA	GLN	100	11.949	-15.274	-2.767	1.00	0.52	SEG1
ATOM	1535	HA	GLN	100	12.788	-14.937	-3.355	1.00	0.57	SEG1
ATOM	1536	CB	GLN	100	11.300	-14.084	-2.049	1.00	0.51	SEG1
ATOM	1537	HB1	GLN	100	12.958	-13.734	-1.269	1.00	0.55	SEG1
ATOM	1538	HB2	GLN	100	10.363	-14.397	-1.614	1.00	0.47	SEG1
ATOM	1539	CG	GLN	100	11.043	-12.947	-3.042	1.00	0.54	SEG1
ATOM	1540	HG1	GLN	100	10.565	-12.126	-2.529	1.00	1.00	SEG1
ATOM	1541	HG2	GLN	100	10.400	-13.301	-3.835	1.00	1.14	SEG1
ATOM	1542	CD	GLN	100	12.369	-12.468	-3.637	1.00	1.30	SEG1
ATOM	1543	OE1	GLN	100	13.079	-11.692	-3.030	1.00	1.83	SEG1
ATOM	1544	NE2	GLN	100	12.739	-12.919	-4.803	1.00	2.26	SEG1
ATOM	1545	HE21	GLN	100	12.169	-13.557	-5.282	1.00	2.51	SEG1
ATOM	1546	HE22	GLN	100	13.583	-12.620	-5.199	1.00	2.99	SEG1
ATOM	1547	C	GLN	100	12.393	-16.320	-1.747	1.00	0.53	SEG1
ATOM	1548	O	GLN	100	13.567	-16.453	-1.455	1.00	0.57	SEG1
ATOM	1549	N	ARG	101	11.464	-17.068	-1.213	1.00	0.51	SEG1
ATOM	1550	HN	ARG	101	10.526	-16.941	-1.475	1.00	0.50	SEG1
ATOM	1551	CA	ARG	101	11.832	-18.118	-0.213	1.00	0.55	SEG1
ATOM	1552	HA	ARG	101	12.287	-17.668	0.656	1.00	0.54	SEG1
ATOM	1553	CB	ARG	101	10.511	-18.789	0.173	1.00	0.58	SEG1
ATOM	1554	HB1	ARG	101	10.061	-19.231	-0.702	1.00	0.62	SEG1
ATOM	1555	HB2	ARG	101	9.841	-18.048	0.587	1.00	0.56	SEG1
ATOM	1556	CG	ARG	101	10.772	-19.878	1.216	1.00	0.64	SEG1
ATOM	1557	HG1	ARG	101	11.219	-19.436	2.094	1.00	0.62	SEG1
ATOM	1558	HG2	ARG	101	11.444	-20.617	0.803	1.00	0.67	SEG1
ATOM	1559	CD	ARG	101	9.450	-20.545	1.601	1.00	0.70	SEG1
ATOM	1560	HD1	ARG	101	9.077	-21.143	0.784	1.00	1.17	SEG1
ATOM	1561	HD2	ARG	101	8.724	-19.797	1.885	1.00	1.21	SEG1
ATOM	1562	NE	ARG	101	9.785	-21.423	2.766	1.00	1.42	SEG1
ATOM	1563	HE	ARG	101	10.714	-21.706	2.902	1.00	1.98	SEG1
ATOM	1564	CZ	ARG	101	8.861	-21.815	3.621	1.00	1.81	SEG1
ATOM	1565	NH1	ARG	101	9.209	-22.561	4.633	1.00	2.84	SEG1
ATOM	1566	HH11	ARG	101	10.165	-22.827	4.753	1.00	3.38	SEG1
ATOM	1567	HH12	ARG	101	8.519	-22.866	5.290	1.00	3.17	SEG1
ATOM	1568	NH2	ARG	101	7.599	-21.479	3.475	1.00	1.50	SEG1
ATOM	1569	HH21	ARG	101	7.310	-20.915	2.704	1.00	1.32	SEG1
ATOM	1570	HH22	ARG	101	6.923	-21.791	4.143	1.00	1.89	SEG1
ATOM	1571	C	ARG	101	12.794	-19.130	-0.855	1.00	0.63	SEG1
ATOM	1572	O	ARG	101	13.839	-19.433	-0.312	1.00	0.66	SEG1
ATOM	1573	N	SER	102	12.450	-19.639	-2.014	1.00	0.67	SEG1
ATOM	1574	HN	SER	102	11.606	-19.368	-2.433	1.00	0.65	SEG1
ATOM	1575	CA	SER	102	13.350	-20.619	-2.703	1.00	0.76	SEG1
ATOM	1576	HA	SER	102	13.558	-21.458	-2.058	1.00	0.81	SEG1
ATOM	1577	CB	SER	102	12.571	-21.083	-3.935	1.00	0.80	SEG1
ATOM	1578	HB1	SER	102	13.223	-21.667	-4.571	1.00	1.16	SEG1
ATOM	1579	HB2	SER	102	12.213	-20.227	-4.482	1.00	1.31	SEG1
ATOM	1580	OG	SER	102	11.462	-21.870	-3.520	1.00	1.48	SEG1
ATOM	1581	HG	SER	102	10.933	-21.343	-2.918	1.00	1.81	SEG1
ATOM	1582	C	SER	102	14.652	-19.929	-3.125	1.00	0.78	SEG1
ATOM	1583	O	SER	102	15.727	-20.489	-3.014	1.00	0.85	SEG1
ATOM	1584	N	LEU	103	14.556	-18.713	-3.599	1.00	0.74	SEG1
ATOM	1585	HN	LEU	103	13.676	-18.287	-3.667	1.00	0.69	SEG1
ATOM	1586	CA	LEU	103	15.779	-17.963	-4.027	1.00	0.79	SEG1
ATOM	1587	HA	LEU	103	16.362	-18.562	-4.710	1.00	0.86	SEG1
ATOM	1588	CB	LEU	103	15.262	-16.712	-4.742	1.00	0.77	SEG1
ATOM	1589	HB1	LEU	103	15.875	-15.865	-4.473	1.00	0.80	SEG1
ATOM	1590	HB2	LEU	103	14.240	-16.525	-4.448	1.00	0.71	SEG1
ATOM	1591	CG	LEU	103	15.328	-16.923	-6.257	1.00	0.83	SEG1
ATOM	1592	HG	LEU	103	16.340	-17.176	-6.532	1.00	0.90	SEG1
ATOM	1593	CD1	LEU	103	14.391	-18.063	-6.668	1.00	0.82	SEG1
ATOM	1594	HD11	LEU	103	13.618	-18.179	-5.926	1.00	1.34	SEG1
ATOM	1595	HD12	LEU	103	14.955	-18.980	-6.746	1.00	1.29	SEG1
ATOM	1596	HD13	LEU	103	13.943	-17.836	-7.623	1.00	1.23	SEG1
ATOM	1597	CD2	LEU	103	14.909	-15.636	-6.970	1.00	0.84	SEG1
ATOM	1598	HD21	LEU	103	14.934	-15.792	-8.038	1.00	1.29	SEG1
ATOM	1599	HD22	LEU	103	15.591	-14.841	-6.706	1.00	1.31	SEG1
ATOM	1600	HD23	LEU	103	13.907	-15.366	-6.668	1.00	1.28	SEG1
ATOM	1601	C	LEU	103	16.623	-17.580	-2.813	1.00	0.79	SEG1
ATOM	1602	O	LEU	103	17.820	-17.386	-2.917	1.00	0.87	SEG1
ATOM	1603	N	ALA	104	16.009	-17.465	-1.662	1.00	0.72	SEG1
ATOM	1604	HN	ALA	104	15.044	-17.623	-1.611	1.00	0.67	SEG1

ATOM	1605	CA	ALA	104	16.772	-17.089	-0.428	1.00	0.74	SEG1
ATOM	1606	HA	ALA	104	17.126	-16.074	-0.497	1.00	0.76	SEG1
ATOM	1607	CB	ALA	104	15.765	-17.216	0.717	1.00	0.68	SEG1
ATOM	1608	HB1	ALA	104	15.952	-16.444	1.449	1.00	1.17	SEG1
ATOM	1609	HB2	ALA	104	15.869	-18.195	1.182	1.00	1.16	SEG1
ATOM	1610	HB3	ALA	104	14.763	-17.109	0.328	1.00	1.31	SEG1
ATOM	1611	C	ALA	104	17.944	-18.055	-0.218	1.00	0.83	SEG1
ATOM	1612	O	ALA	104	19.073	-17.641	-0.042	1.00	0.90	SEG1
ATOM	1613	N	ALA	105	17.681	-19.335	-0.254	1.00	0.85	SEG1
ATOM	1614	HN	ALA	105	16.762	-19.639	-0.421	1.00	0.81	SEG1
ATOM	1615	CA	ALA	105	18.779	-20.333	-0.073	1.00	0.95	SEG1
ATOM	1616	HA	ALA	105	19.323	-20.137	0.838	1.00	0.95	SEG1
ATOM	1617	CB	ALA	105	18.082	-21.692	0.012	1.00	0.98	SEG1
ATOM	1618	HB1	ALA	105	17.663	-21.821	0.999	1.00	1.41	SEG1
ATOM	1619	HB2	ALA	105	18.797	-22.477	-0.181	1.00	1.44	SEG1
ATOM	1620	HB3	ALA	105	17.291	-21.738	-0.723	1.00	1.39	SEG1
ATOM	1621	C	ALA	105	19.719	-20.287	-1.280	1.00	1.03	SEG1
ATOM	1622	O	ALA	105	20.914	-20.482	-1.160	1.00	1.11	SEG1
ATOM	1623	N	ALA	106	19.177	-20.032	-2.443	1.00	1.04	SEG1
ATOM	1624	HN	ALA	106	18.210	-19.882	-2.503	1.00	0.98	SEG1
ATOM	1625	CA	ALA	106	20.019	-19.972	-3.678	1.00	1.14	SEG1
ATOM	1626	HA	ALA	106	20.573	-20.889	-3.798	1.00	1.22	SEG1
ATOM	1627	CB	ALA	106	19.027	-19.812	-4.833	1.00	1.13	SEG1
ATOM	1628	HB1	ALA	106	19.566	-19.771	-5.767	1.00	1.31	SEG1
ATOM	1629	HB2	ALA	106	18.466	-18.898	-4.701	1.00	1.58	SEG1
ATOM	1630	HB3	ALA	106	18.349	-20.652	-4.844	1.00	1.56	SEG1
ATOM	1631	C	ALA	106	20.974	-18.775	-3.628	1.00	1.18	SEG1
ATOM	1632	O	ALA	106	22.086	-18.844	-4.117	1.00	1.29	SEG1
ATOM	1633	N	LEU	107	20.546	-17.677	-3.054	1.00	1.11	SEG1
ATOM	1634	HN	LEU	107	19.644	-17.642	-2.674	1.00	1.02	SEG1
ATOM	1635	CA	LEU	107	21.426	-16.473	-2.990	1.00	1.18	SEG1
ATOM	1636	HA	LEU	107	22.066	-16.433	-3.857	1.00	1.27	SEG1
ATOM	1637	CB	LEU	107	20.463	-15.285	-3.003	1.00	1.12	SEG1
ATOM	1638	HB1	LEU	107	21.007	-14.376	-2.794	1.00	1.19	SEG1
ATOM	1639	HB2	LEU	107	19.701	-15.431	-2.251	1.00	1.05	SEG1
ATOM	1640	CG	LEU	107	19.808	-15.180	-4.382	1.00	1.12	SEG1
ATOM	1641	HG	LEU	107	19.415	-16.145	-4.666	1.00	1.14	SEG1
ATOM	1642	CD1	LEU	107	18.669	-14.161	-4.334	1.00	1.21	SEG1
ATOM	1643	HD11	LEU	107	18.997	-13.278	-3.806	1.00	1.78	SEG1
ATOM	1644	HD12	LEU	107	17.821	-14.592	-3.822	1.00	1.60	SEG1
ATOM	1645	HD13	LEU	107	18.383	-13.893	-5.341	1.00	1.41	SEG1
ATOM	1646	CD2	LEU	107	20.851	-14.730	-5.407	1.00	1.24	SEG1
ATOM	1647	HD21	LEU	107	21.517	-14.011	-4.953	1.00	1.62	SEG1
ATOM	1648	HD22	LEU	107	20.353	-14.277	-6.252	1.00	1.68	SEG1
ATOM	1649	HD23	LEU	107	21.419	-15.585	-5.742	1.00	1.59	SEG1
ATOM	1650	C	LEU	107	22.270	-16.490	-1.708	1.00	1.21	SEG1
ATOM	1651	O	LEU	107	23.433	-16.849	-1.734	1.00	1.31	SEG1
ATOM	1652	N	ALA	108	21.701	-16.107	-0.589	1.00	1.13	SEG1
ATOM	1653	HN	ALA	108	20.762	-15.822	-0.590	1.00	1.05	SEG1
ATOM	1654	CA	ALA	108	22.483	-16.105	0.688	1.00	1.17	SEG1
ATOM	1655	HA	ALA	108	23.036	-17.024	0.790	1.00	1.21	SEG1
ATOM	1656	CB	ALA	108	23.449	-14.927	0.561	1.00	1.29	SEG1
ATOM	1657	HB1	ALA	108	24.163	-14.958	1.371	1.00	1.64	SEG1
ATOM	1658	HB2	ALA	108	22.896	-14.001	0.603	1.00	1.68	SEG1
ATOM	1659	HB3	ALA	108	23.972	-14.991	-0.382	1.00	1.65	SEG1
ATOM	1660	C	ALA	108	21.556	-15.907	1.891	1.00	1.08	SEG1
ATOM	1661	O	ALA	108	21.911	-15.258	2.857	1.00	1.13	SEG1
ATOM	1662	N	GLN	109	20.372	-16.458	1.836	1.00	0.97	SEG1
ATOM	1663	HN	GLN	109	20.112	-16.973	1.044	1.00	0.95	SEG1
ATOM	1664	CA	GLN	109	19.413	-16.303	2.971	1.00	0.90	SEG1
ATOM	1665	HA	GLN	109	19.905	-15.884	3.833	1.00	0.96	SEG1
ATOM	1666	CB	GLN	109	18.352	-15.334	2.447	1.00	0.85	SEG1
ATOM	1667	HB1	GLN	109	17.531	-15.286	3.146	1.00	0.80	SEG1
ATOM	1668	HB2	GLN	109	17.990	-15.680	1.489	1.00	0.82	SEG1
ATOM	1669	CG	GLN	109	18.965	-13.942	2.289	1.00	0.98	SEG1
ATOM	1670	HG1	GLN	109	19.887	-14.017	1.734	1.00	1.16	SEG1
ATOM	1671	HG2	GLN	109	19.165	-13.527	3.265	1.00	1.25	SEG1
ATOM	1672	CD	GLN	109	17.994	-13.028	1.537	1.00	1.42	SEG1
ATOM	1673	OE1	GLN	109	17.061	-13.490	0.910	1.00	1.91	SEG1
ATOM	1674	NE2	GLN	109	18.183	-11.738	1.565	1.00	1.74	SEG1
ATOM	1675	HE21	GLN	109	18.940	-11.366	2.064	1.00	1.72	SEG1
ATOM	1676	HE22	GLN	109	17.569	-11.142	1.087	1.00	2.24	SEG1
ATOM	1677	C	GLN	109	18.775	-17.652	3.311	1.00	0.85	SEG1
ATOM	1678	O	GLN	109	18.443	-18.423	2.432	1.00	0.83	SEG1
ATOM	1679	N	HIS	110	18.587	-17.941	4.576	1.00	0.87	SEG1
ATOM	1680	HN	HIS	110	18.852	-17.302	5.270	1.00	0.92	SEG1
ATOM	1681	CA	HIS	110	17.951	-19.240	4.950	1.00	0.89	SEG1

FIG. 2 (23 of 35)

ATOM	1682	HA	HIS	110	18.501	-20.067	4.529	1.00	0.94	SEG1
ATOM	1683	CB	HIS	110	17.997	-19.298	6.479	1.00	0.95	SEG1
ATOM	1684	HB1	HIS	110	17.393	-20.124	6.825	1.00	1.35	SEG1
ATOM	1685	HB2	HIS	110	17.611	-18.375	6.885	1.00	1.16	SEG1
ATOM	1686	CG	HIS	110	19.416	-19.492	6.934	1.00	1.24	SEG1
ATOM	1687	ND1	HIS	110	20.255	-18.426	7.216	1.00	2.20	SEG1
ATOM	1688	HD1	HIS	110	20.025	-17.476	7.152	1.00	2.77	SEG1
ATOM	1689	CD2	HIS	110	20.157	-20.624	7.162	1.00	1.69	SEG1
ATOM	1690	HD2	HIS	110	19.802	-21.636	7.034	1.00	2.16	SEG1
ATOM	1691	CE1	HIS	110	21.442	-18.934	7.595	1.00	2.66	SEG1
ATOM	1692	HE1	HIS	110	22.295	-18.335	7.877	1.00	3.53	SEG1
ATOM	1693	NE2	HIS	110	21.436	-20.270	7.580	1.00	2.33	SEG1
ATOM	1694	C	HIS	110	16.503	-19.253	4.460	1.00	0.83	SEG1
ATOM	1695	O	HIS	110	16.013	-20.249	3.962	1.00	1.08	SEG1
ATOM	1696	N	SER	111	15.820	-18.141	4.587	1.00	0.68	SEG1
ATOM	1697	HN	SER	111	16.249	-17.353	4.984	1.00	0.77	SEG1
ATOM	1698	CA	SER	111	14.400	-18.053	4.121	1.00	0.61	SEG1
ATOM	1699	HA	SER	111	14.329	-18.326	3.080	1.00	0.63	SEG1
ATOM	1700	CB	SER	111	13.618	-19.051	4.982	1.00	0.66	SEG1
ATOM	1701	HB1	SER	111	13.856	-18.888	6.025	1.00	1.14	SEG1
ATOM	1702	HB2	SER	111	13.889	-20.056	4.708	1.00	1.08	SEG1
ATOM	1703	OG	SER	111	12.225	-18.866	4.767	1.00	1.38	SEG1
ATOM	1704	HG	SER	111	11.755	-19.295	5.485	1.00	1.53	SEG1
ATOM	1705	C	SER	111	13.862	-16.637	4.341	1.00	0.51	SEG1
ATOM	1706	O	SER	111	13.860	-16.132	5.449	1.00	0.54	SEG1
ATOM	1707	N	VAL	112	13.392	-16.000	3.299	1.00	0.47	SEG1
ATOM	1708	HN	VAL	112	13.395	-16.433	2.420	1.00	0.51	SEG1
ATOM	1709	CA	VAL	112	12.834	-14.620	3.448	1.00	0.42	SEG1
ATOM	1710	HA	VAL	112	12.698	-14.386	4.492	1.00	0.41	SEG1
ATOM	1711	CB	VAL	112	13.882	-13.674	2.833	1.00	0.54	SEG1
ATOM	1712	HB	VAL	112	14.788	-13.721	3.420	1.00	0.61	SEG1
ATOM	1713	CG1	VAL	112	14.195	-14.094	1.390	1.00	0.61	SEG1
ATOM	1714	HG11	VAL	112	13.434	-14.775	1.038	1.00	1.32	SEG1
ATOM	1715	HG12	VAL	112	15.158	-14.584	1.361	1.00	1.02	SEG1
ATOM	1716	HG13	VAL	112	14.219	-13.221	0.754	1.00	1.21	SEG1
ATOM	1717	CG2	VAL	112	13.344	-12.234	2.844	1.00	0.58	SEG1
ATOM	1718	HG21	VAL	112	12.561	-12.147	3.587	1.00	1.18	SEG1
ATOM	1719	HG22	VAL	112	12.943	-11.993	1.870	1.00	1.21	SEG1
ATOM	1720	HG23	VAL	112	14.145	-11.552	3.082	1.00	1.13	SEG1
ATOM	1721	C	VAL	112	11.491	-14.519	2.704	1.00	0.40	SEG1
ATOM	1722	O	VAL	112	11.400	-13.850	1.693	1.00	0.46	SEG1
ATOM	1723	N	PRO	113	10.483	-15.181	3.228	1.00	0.41	SEG1
ATOM	1724	CA	PRO	113	9.151	-15.136	2.587	1.00	0.50	SEG1
ATOM	1725	HA	PRO	113	9.232	-15.296	1.525	1.00	0.57	SEG1
ATOM	1726	CB	PRO	113	8.398	-16.294	3.234	1.00	0.64	SEG1
ATOM	1727	HB1	PRO	113	8.486	-17.184	2.631	1.00	0.72	SEG1
ATOM	1728	HB2	PRO	113	7.357	-16.032	3.370	1.00	0.71	SEG1
ATOM	1729	CG	PRO	113	9.061	-16.507	4.558	1.00	0.62	SEG1
ATOM	1730	HG1	PRO	113	9.056	-17.557	4.807	1.00	0.75	SEG1
ATOM	1731	HG2	PRO	113	8.542	-15.944	5.321	1.00	0.66	SEG1
ATOM	1732	CD	PRO	113	10.483	-16.022	4.438	1.00	0.47	SEG1
ATOM	1733	HD2	PRO	113	10.757	-15.440	5.308	1.00	0.47	SEG1
ATOM	1734	HD1	PRO	113	11.158	-16.854	4.311	1.00	0.50	SEG1
ATOM	1735	C	PRO	113	8.458	-13.803	2.886	1.00	0.47	SEG1
ATOM	1736	O	PRO	113	7.929	-13.597	3.962	1.00	0.53	SEG1
ATOM	1737	N	LEU	114	8.447	-12.905	1.934	1.00	0.51	SEG1
ATOM	1738	HN	LEU	114	8.872	-13.102	1.073	1.00	0.59	SEG1
ATOM	1739	CA	LEU	114	7.778	-11.586	2.147	1.00	0.54	SEG1
ATOM	1740	HA	LEU	114	7.662	-11.378	3.199	1.00	0.50	SEG1
ATOM	1741	CB	LEU	114	8.709	-10.559	1.501	1.00	0.62	SEG1
ATOM	1742	HB1	LEU	114	8.194	-9.615	1.409	1.00	1.24	SEG1
ATOM	1743	HB2	LEU	114	9.001	-10.907	0.521	1.00	1.15	SEG1
ATOM	1744	CG	LEU	114	9.953	-10.375	2.368	1.00	1.00	SEG1
ATOM	1745	HG	LEU	114	10.362	-11.341	2.624	1.00	1.82	SEG1
ATOM	1746	CD1	LEU	114	10.995	-9.566	1.594	1.00	1.41	SEG1
ATOM	1747	HD11	LEU	114	10.713	-8.523	1.593	1.00	1.88	SEG1
ATOM	1748	HD12	LEU	114	11.047	-9.926	0.578	1.00	1.82	SEG1
ATOM	1749	HD13	LEU	114	11.960	-9.677	2.066	1.00	2.03	SEG1
ATOM	1750	CD2	LEU	114	9.572	-9.617	3.643	1.00	1.66	SEG1
ATOM	1751	HD21	LEU	114	8.980	-10.256	4.279	1.00	2.15	SEG1
ATOM	1752	HD22	LEU	114	8.998	-8.740	3.382	1.00	2.23	SEG1
ATOM	1753	HD23	LEU	114	10.469	-9.319	4.166	1.00	2.01	SEG1
ATOM	1754	C	LEU	114	6.427	-11.590	1.442	1.00	0.65	SEG1
ATOM	1755	O	LEU	114	6.353	-11.590	0.228	1.00	0.86	SEG1
ATOM	1756	N	GLN	115	5.359	-11.604	2.194	1.00	0.58	SEG1
ATOM	1757	HN	GLN	115	5.447	-11.613	3.170	1.00	0.51	SEG1
ATOM	1758	CA	GLN	115	4.008	-11.628	1.570	1.00	0.71	SEG1

FIG. 2 (24 of 35)

ATOM	1759	HA	GLN	115	4.095	-11.648	0.495	1.00	0.84	SEG1
ATOM	1760	CB	GLN	115	3.368	-12 929	2.062	1.00	0.86	SEG1
ATOM	1761	HB1	GLN	115	3.309	-12 918	3.139	1.00	0.94	SEG1
ATOM	1762	HB2	GLN	115	3.972	-13 768	1.742	1.00	1.29	SEG1
ATOM	1763	CG	GLN	115	1.959	-13 065	1.477	1.00	1.26	SEG1
ATOM	1764	HG1	GLN	115	2.018	-13 077	0.398	1.00	1.92	SEG1
ATOM	1765	HG2	GLN	115	1.358	-12 225	1.793	1.00	1.92	SEG1
ATOM	1766	CD	GLN	115	1.312	-14 366	1.963	1.00	0.81	SEG1
ATOM	1767	OE1	GLN	115	1.964	-15 205	2.553	1.00	1.12	SEG1
ATOM	1768	NE2	GLN	115	0.045	-14 571	1.730	1.00	0.81	SEG1
ATOM	1769	HE21	GLN	115	-0.481	-13 897	1.248	1.00	0.83	SEG1
ATOM	1770	HE22	GLN	115	-0.382	-15 399	2.035	1.00	1.18	SEG1
ATOM	1771	C	GLN	115	3.189	-10 414	2.011	1.00	0.56	SEG1
ATOM	1772	O	GLN	115	3.430	-9 822	3.053	1.00	0.46	SEG1
ATOM	1773	N	LEU	116	2.224	-10 047	1 210	1.00	0.59	SEG1
ATOM	1774	HN	LEU	116	2.068	-10 548	0 382	1.00	0.70	SEG1
ATOM	1775	CA	LEU	116	1.362	-8 878	1.533	1.00	0.48	SEG1
ATOM	1776	HA	LEU	116	1.742	-8 340	2 382	1.00	0.42	SEG1
ATOM	1777	CB	LEU	116	1.414	-7 993	0 284	1.00	0.53	SEG1
ATOM	1778	HB1	LEU	116	0.809	-7 113	0 443	1.00	0.52	SEG1
ATOM	1779	HB2	LEU	116	1.027	-8 545	-0 560	1.00	0.62	SEG1
ATOM	1780	CG	LEU	116	2.859	-7 567	-0 008	1.00	0.55	SEG1
ATOM	1781	HG	LEU	116	3.464	-8 446	-0 174	1.00	0.59	SEG1
ATOM	1782	CD1	LEU	116	2.880	-6 691	-1 261	1.00	0.69	SEG1
ATOM	1783	HD11	LEU	116	2.685	-5 665	-0 986	1.00	1.24	SEG1
ATOM	1784	HD12	LEU	116	2.119	-7 030	-1 950	1.00	1.29	SEG1
ATOM	1785	HD13	LEU	116	3.849	-6 760	-1 732	1.00	1.07	SEG1
ATOM	1786	CD2	LEU	116	3.422	-6 771	1 175	1.00	0.48	SEG1
ATOM	1787	HD21	LEU	116	2.704	-6.026	1 484	1.00	1.17	SEG1
ATOM	1788	HD22	LEU	116	4.339	-6 284	0.876	1.00	1.11	SEG1
ATOM	1789	HD23	LEU	116	3.623	-7 442	1.998	1.00	1.09	SEG1
ATOM	1790	C	LEU	116	-0.071	-9.349	1 783	1.00	0.48	SEG1
ATOM	1791	O	LEU	116	-0.511	-10.339	1 229	1.00	0.53	SEG1
ATOM	1792	N	GLU	117	-0.801	-8 643	2 604	1.00	0.43	SEG1
ATOM	1793	HN	GLU	117	-0.421	-7.846	3 030	1.00	0.40	SEG1
ATOM	1794	CA	GLU	117	-2.217	-9.030	2.884	1.00	0.44	SEG1
ATOM	1795	HA	GLU	117	-2.535	-9.813	2 214	1.00	0.49	SEG1
ATOM	1796	CB	GLU	117	-2.220	-9.533	4 327	1.00	0.47	SEG1
ATOM	1797	HB1	GLU	117	-3.228	-9.790	4 617	1.00	0.74	SEG1
ATOM	1798	HB2	GLU	117	-1.844	-8.760	4.979	1.00	0.64	SEG1
ATOM	1799	CG	GLU	117	-1.329	-10.776	4 433	1.00	0.95	SEG1
ATOM	1800	HG1	GLU	117	-0.322	-10.520	4 137	1.00	1.24	SEG1
ATOM	1801	HG2	GLU	117	-1.709	-11.544	3.775	1.00	1.29	SEG1
ATOM	1802	CD	GLU	117	-1.314	-11.304	5.875	1.00	0.99	SEG1
ATOM	1803	OE1	GLU	117	-1.813	-10.617	6.754	1.00	1.61	SEG1
ATOM	1804	OE2	GLU	117	-0.799	-12.392	6 075	1.00	1.23	SEG1
ATOM	1805	C	GLU	117	-3.104	-7.796	2.731	1.00	0.37	SEG1
ATOM	1806	O	GLU	117	-2.623	-6.682	2.781	1.00	0.39	SEG1
ATOM	1807	N	LEU	118	-4.386	-7.975	2.527	1.00	0.34	SEG1
ATOM	1808	HN	LEU	118	-4.755	-8.881	2 477	1.00	0.37	SEG1
ATOM	1809	CA	LEU	118	-5.277	-6.788	2 355	1.00	0.29	SEG1
ATOM	1810	HA	LEU	118	-4.699	-5.878	2 367	1.00	0.27	SEG1
ATOM	1811	CB	LEU	118	-5.931	-6.962	0 987	1.00	0.30	SEG1
ATOM	1812	HB1	LEU	118	-6.637	-6.161	0 826	1.00	0.28	SEG1
ATOM	1813	HB2	LEU	118	-6.451	-7.907	0 956	1.00	0.32	SEG1
ATOM	1814	CG	LEU	118	-4.865	-6.918	-0 104	1.00	0.31	SEG1
ATOM	1815	HG	LEU	118	-4.058	-7.590	0 150	1.00	0.34	SEG1
ATOM	1816	CD1	LEU	118	-5.483	-7.338	-1 438	1.00	0.36	SEG1
ATOM	1817	HD11	LEU	118	-4.712	-7.729	-2 085	1.00	1.00	SEG1
ATOM	1818	HD12	LEU	118	-5.946	-6.481	-1 906	1.00	1.02	SEG1
ATOM	1819	HD13	LEU	118	-6.229	-8.099	-1 265	1.00	1.09	SEG1
ATOM	1820	CD2	LEU	118	-4.329	-5.491	-0 218	1 00	0.29	SEG1
ATOM	1821	HD21	LEU	118	-3.997	-5.309	-1 229	1 00	1.02	SEG1
ATOM	1822	HD22	LEU	118	-3.502	-5.366	0 461	1 00	1.06	SEG1
ATOM	1823	HD23	LEU	118	-5.113	-4.790	0 036	1 00	1.07	SEG1
ATOM	1824	C	LEU	118	-6.364	-6.741	3 418	1.00	0.32	SEG1
ATOM	1825	O	LEU	118	-7.051	-7.715	3.665	1 00	0.38	SEG1
ATOM	1826	N	ARG	119	-6.556	-5.595	4.009	1 00	0.29	SEG1
ATOM	1827	HN	ARG	119	-6.006	-4.816	3.761	1 00	0.28	SEG1
ATOM	1828	CA	ARG	119	-7.638	-5.447	5.019	1 00	0.34	SEG1
ATOM	1829	HA	ARG	119	-8.268	-6.324	5.027	1.00	0.38	SEG1
ATOM	1830	CB	ARG	119	-6.939	-5.284	6.366	1.00	0.38	SEG1
ATOM	1831	HB1	ARG	119	-6.351	-4.379	6.361	1.00	0.61	SEG1
ATOM	1832	HB2	ARG	119	-6.294	-6.134	6.543	1.00	0.77	SEG1
ATOM	1833	CG	ARG	119	-7.993	-5.200	7.473	1.00	0.70	SEG1
ATOM	1834	HG1	ARG	119	-8.644	-6.058	7.417	1.00	1.23	SEG1
ATOM	1835	HG2	ARG	119	-8.574	-4.297	7.348	1.00	1.36	SEG1

FIG. 2 (25 of 35)

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ATOM   1836  CD  ARG  119      -7.300  -5.177   8.835  1.00  0.84      SEG1
ATOM   1837  HD1 ARG  119      -6.660  -4.314   8.916  1.00  1.40      SEG1
ATOM   1838  HD2 ARG  119      -6.730  -6.086   8.975  1.00  1.09      SEG1
ATOM   1839  NE  ARG  119      -8.402  -5.094   9.846  1.00  1.43      SEG1
ATOM   1840  HE  ARG  119      -9.323  -4.949   9.545  1.00  1.78      SEG1
ATOM   1841  CZ  ARG  119      -8.156  -5.211  11.137  1.00  2.13      SEG1
ATOM   1842  NH1 ARG  119      -9.146  -5.133  11.984  1.00  2.72      SEG1
ATOM   1843  HH11 ARG  119     -10.078  -4.987  11.652  1.00  2.79      SEG1
ATOM   1844  HH12 ARG  119      -8.973  -5.220  12.964  1.00  3.33      SEG1
ATOM   1845  NH2 ARG  119      -6.938  -5.401  11.592  1.00  2.69      SEG1
ATOM   1846  HH21 ARG  119      -6.165  -5.461  10.961  1.00  2.58      SEG1
ATOM   1847  HH22 ARG  119      -6.783  -5.485  12.576  1.00  3.46      SEG1
ATOM   1848  C   ARG  119      -8.453  -4.207   4.667  1.00  0.31      SEG1
ATOM   1849  O   ARG  119      -8.041  -3.090   4.921  1.00  0.30      SEG1
ATOM   1850  N   ALA  120      -9.593  -4.399   4.059  1.00  0.33      SEG1
ATOM   1851  HN  ALA  120      -9.885  -5.314   3.846  1.00  0.34      SEG1
ATOM   1852  CA  ALA  120     -10.432  -3.231   3.658  1.00  0.33      SEG1
ATOM   1853  HA  ALA  120      -9.842  -2.327   3.679  1.00  0.33      SEG1
ATOM   1854  CB  ALA  120     -10.859  -3.532   2.221  1.00  0.35      SEG1
ATOM   1855  HB1 ALA  120     -11.394  -4.469   2.194  1.00  1.06      SEG1
ATOM   1856  HB2 ALA  120      -9.984  -3.598   1.592  1.00  1.10      SEG1
ATOM   1857  HB3 ALA  120     -11.501  -2.740   1.863  1.00  1.05      SEG1
ATOM   1858  C   ALA  120     -11.665  -3.096   4.562  1.00  0.38      SEG1
ATOM   1859  O   ALA  120     -12.261  -2.038   4.649  1.00  0.42      SEG1
ATOM   1860  N   GLY  121     -12.054  -4.154   5.230  1.00  0.40      SEG1
ATOM   1861  HN  GLY  121     -11.562  -4.996   5.142  1.00  0.40      SEG1
ATOM   1862  CA  GLY  121     -13.250  -4.083   6.122  1.00  0.46      SEG1
ATOM   1863  HA1 GLY  121     -14.119  -3.816   5.540  1.00  0.49      SEG1
ATOM   1864  HA2 GLY  121     -13.085  -3.338   6.887  1.00  0.48      SEG1
ATOM   1865  C   GLY  121     -13.481  -5.446   6.776  1.00  0.49      SEG1
ATOM   1866  O   GLY  121     -12.594  -6.003   7.396  1.00  0.50      SEG1
ATOM   1867  N   ALA  122     -14.666  -5.986   6.640  1.00  0.53      SEG1
ATOM   1868  HN  ALA  122     -15.361  -5.515   6.134  1.00  0.54      SEG1
ATOM   1869  CA  ALA  122     -14.962  -7.317   7.252  1.00  0.58      SEG1
ATOM   1870  HA  ALA  122     -14.535  -7.376   8.241  1.00  0.60      SEG1
ATOM   1871  CB  ALA  122     -16.487  -7.382   7.341  1.00  0.64      SEG1
ATOM   1872  HB1 ALA  122     -16.917  -7.030   6.416  1.00  1.23      SEG1
ATOM   1873  HB2 ALA  122     -16.826  -6.759   8.156  1.00  1.17      SEG1
ATOM   1874  HB3 ALA  122     -16.794  -8.402   7.516  1.00  1.23      SEG1
ATOM   1875  C   ALA  122     -14.425  -8.458   6.372  1.00  0.56      SEG1
ATOM   1876  O   ALA  122     -14.455  -9.610   6.763  1.00  0.60      SEG1
ATOM   1877  N   GLU  123     -13.932  -8.151   5.193  1.00  0.52      SEG1
ATOM   1878  HN  GLU  123     -13.912  -7.220   4.894  1.00  0.51      SEG1
ATOM   1879  CA  GLU  123     -13.392  -9.220   4.301  1.00  0.51      SEG1
ATOM   1880  HA  GLU  123     -13.761 -10.187   4.606  1.00  0.56      SEG1
ATOM   1881  CB  GLU  123     -13.919  -8.875   2.908  1.00  0.52      SEG1
ATOM   1882  HB1 GLU  123     -13.430  -9.494   2.173  1.00  0.60      SEG1
ATOM   1883  HB2 GLU  123     -13.716  -7.835   2.696  1.00  0.62      SEG1
ATOM   1884  CG  GLU  123     -15.432  -9.122   2.860  1.00  0.81      SEG1
ATOM   1885  HG1 GLU  123     -15.919  -8.503   3.598  1.00  1.14      SEG1
ATOM   1886  HG2 GLU  123     -15.630 -10.161   3.078  1.00  1.08      SEG1
ATOM   1887  CD  GLU  123     -15.985  -8.781   1.468  1.00  1.04      SEG1
ATOM   1888  OE1 GLU  123     -15.256  -8.207   0.673  1.00  1.61      SEG1
ATOM   1889  OE2 GLU  123     -17.134  -9.109   1.219  1.00  1.62      SEG1
ATOM   1890  C   GLU  123     -11.861  -9.201   4.324  1.00  0.46      SEG1
ATOM   1891  O   GLU  123     -11.242  -8.169   4.146  1.00  0.45      SEG1
ATOM   1892  N   ARG  124     -11.251 -10.338   4.545  1.00  0.49      SEG1
ATOM   1893  HN  ARG  124     -11.777 -11.152   4.688  1.00  0.54      SEG1
ATOM   1894  CA  ARG  124      -9.759 -10.401   4.587  1.00  0.49      SEG1
ATOM   1895  HA  ARG  124      -9.364  -9.483   4.993  1.00  0.48      SEG1
ATOM   1896  CB  ARG  124      -9.435 -11.562   5.529  1.00  0.56      SEG1
ATOM   1897  HB1 ARG  124      -8.385 -11.798   5.467  1.00  0.58      SEG1
ATOM   1898  HB2 ARG  124     -10.018 -12.427   5.248  1.00  0.57      SEG1
ATOM   1899  CG  ARG  124      -9.781 -11.156   6.964  1.00  0.61      SEG1
ATOM   1900  HG1 ARG  124     -10.832 -10.919   7.028  1.00  0.61      SEG1
ATOM   1901  HG2 ARG  124      -9.199 -10.288   7.240  1.00  0.60      SEG1
ATOM   1902  CD  ARG  124      -9.461 -12.312   7.918  1.00  0.70      SEG1
ATOM   1903  HD1 ARG  124      -8.407 -12.546   7.886  1.00  1.17      SEG1
ATOM   1904  HD2 ARG  124     -10.048 -13.182   7.661  1.00  1.17      SEG1
ATOM   1905  NE  ARG  124      -9.832 -11.814   9.281  1.00  1.59      SEG1
ATOM   1906  HE  ARG  124     -10.282 -10.947   9.372  1.00  2.17      SEG1
ATOM   1907  CZ  ARG  124      -9.567 -12.517  10.365  1.00  2.20      SEG1
ATOM   1908  NH1 ARG  124      -9.908 -12.042  11.532  1.00  3.24      SEG1
ATOM   1909  HH11 ARG  124     -10.364 -11.155  11.596  1.00  3.68      SEG1
ATOM   1910  HH12 ARG  124      -9.713 -12.565  12.361  1.00  3.76      SEG1
ATOM   1911  NH2 ARG  124      -8.967 -13.683  10.300  1.00  2.24      SEG1
ATOM   1912  HH21 ARG  124     -8.696 -14.065   9.418  1.00  2.00      SEG1
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FIG. 2 (26 of 35)

ATOM	1913	HH22	ARG	124	-8.780	-14.194	11.139	1.00	2.90	SEG1
ATOM	1914	C	ARG	124	-9.185	-10.648	3.188	1.00	0.46	SEG1
ATOM	1915	O	ARG	124	-9.872	-10.511	2.193	1.00	0.44	SEG1
ATOM	1916	N	LEU	125	-7.923	-10.993	3.139	1.00	0.49	SEG1
ATOM	1917	HN	LEU	125	-7.393	-11.079	3.928	1.00	0.53	SEG1
ATOM	1918	CA	LEU	125	-7.283	-11.230	1.777	1.00	0.49	SEG1
ATOM	1919	HA	LEU	125	-7.297	-10.326	1.191	1.00	0.50	SEG1
ATOM	1920	CB	LEU	125	-5.835	-11.627	2.096	1.00	0.58	SEG1
ATOM	1921	HB1	LEU	125	-5.834	-12.518	2.704	1.00	0.60	SEG1
ATOM	1922	HB2	LEU	125	-5.353	-10.823	2.635	1.00	0.62	SEG1
ATOM	1923	CG	LEU	125	-5.069	-11.899	0.798	1.00	0.62	SEG1
ATOM	1924	HG	LEU	125	-5.615	-12.621	0.206	1.00	0.79	SEG1
ATOM	1925	CD1	LEU	125	-4.915	-10.600	-0.203	1.00	1.11	SEG1
ATOM	1926	HD11	LEU	125	-3.896	-10.254	0.061	1.00	1.61	SEG1
ATOM	1927	HD12	LEU	125	-5.573	-9.844	0.397	1.00	1.75	SEG1
ATOM	1928	HD13	LEU	125	-5.167	-10.784	-1.037	1.00	1.55	SEG1
ATOM	1929	CD2	LEU	125	-3.686	-12.463	1.139	1.00	1.28	SEG1
ATOM	1930	HD21	LEU	125	-3.790	-13.260	1.959	1.00	1.80	SEG1
ATOM	1931	HD22	LEU	125	-3.071	-11.679	1.556	1.00	1.84	SEG1
ATOM	1932	HD23	LEU	125	-3.222	-12.847	0.242	1.00	1.73	SEG1
ATOM	1933	C	LEU	125	-7.994	-12.362	1.028	1.00	0.46	SEG1
ATOM	1934	O	LEU	125	-8.299	-12.236	-0.144	1.00	0.45	SEG1
ATOM	1935	N	ASP	126	-8.261	-13.458	1.688	1.00	0.49	SEG1
ATOM	1936	HN	ASP	126	-8.007	-13.537	2.632	1.00	0.53	SEG1
ATOM	1937	CA	ASP	126	-8.956	-14.590	1.001	1.00	0.50	SEG1
ATOM	1938	HA	ASP	126	-8.381	-14.913	0.145	1.00	0.49	SEG1
ATOM	1939	CB	ASP	126	-9.025	-15.723	2.038	1.00	0.57	SEG1
ATOM	1940	HB1	ASP	126	-8.025	-15.964	2.369	1.00	0.58	SEG1
ATOM	1941	HB2	ASP	126	-9.469	-16.596	1.583	1.00	0.59	SEG1
ATOM	1942	CG	ASP	126	-9.868	-15.299	3.251	1.00	0.62	SEG1
ATOM	1943	OD1	ASP	126	-10.047	-14.108	3.446	1.00	1.28	SEG1
ATOM	1944	OD2	ASP	126	-10.322	-16.179	3.964	1.00	1.21	SEG1
ATOM	1945	C	ASP	126	-10.360	-14.158	0.559	1.00	0.51	SEG1
ATOM	1946	O	ASP	126	-10.948	-14.746	-0.329	1.00	0.53	SEG1
ATOM	1947	N	ALA	127	-10.899	-13.135	1.177	1.00	0.52	SEG1
ATOM	1948	HN	ALA	127	-10.406	-12.680	1.890	1.00	0.52	SEG1
ATOM	1949	CA	ALA	127	-12.263	-12.658	0.803	1.00	0.57	SEG1
ATOM	1950	HA	ALA	127	-12.905	-13.496	0.584	1.00	0.60	SEG1
ATOM	1951	CB	ALA	127	-12.773	-11.927	2.046	1.00	0.64	SEG1
ATOM	1952	HB1	ALA	127	-12.036	-11.203	2.368	1.00	1.19	SEG1
ATOM	1953	HB2	ALA	127	-12.944	-12.642	2.838	1.00	1.26	SEG1
ATOM	1954	HB3	ALA	127	-13.697	-11.422	1.811	1.00	1.17	SEG1
ATOM	1955	C	ALA	127	-12.209	-11.698	-0.398	1.00	0.55	SEG1
ATOM	1956	O	ALA	127	-13.236	-11.313	-0.925	1.00	0.62	SEG1
ATOM	1957	N	LEU	128	-11.031	-11.301	-0.832	1.00	0.50	SEG1
ATOM	1958	HN	LEU	128	-10.212	-11.614	-0.396	1.00	0.47	SEG1
ATOM	1959	CA	LEU	128	-10.943	-10.360	-1.994	1.00	0.52	SEG1
ATOM	1960	HA	LEU	128	-11.895	-9.885	-2.163	1.00	0.57	SEG1
ATOM	1961	CB	LEU	128	-9.903	-9.313	-1.585	1.00	0.53	SEG1
ATOM	1962	HB1	LEU	128	-9.780	-8.598	-2.385	1.00	0.87	SEG1
ATOM	1963	HB2	LEU	128	-8.958	-9.801	-1.393	1.00	0.70	SEG1
ATOM	1964	CG	LEU	128	-10.366	-8.583	-0.321	1.00	1.03	SEG1
ATOM	1965	HG	LEU	128	-10.624	-9.310	0.437	1.00	1.71	SEG1
ATOM	1966	CD1	LEU	128	-9.231	-7.694	0.196	1.00	1.29	SEG1
ATOM	1967	HD11	LEU	128	-8.688	-7.281	-0.641	1.00	1.79	SEG1
ATOM	1968	HD12	LEU	128	-8.562	-8.283	0.805	1.00	1.73	SEG1
ATOM	1969	HD13	LEU	128	-9.644	-6.891	0.789	1.00	1.77	SEG1
ATOM	1970	CD2	LEU	128	-11.594	-7.715	-0.640	1.00	1.58	SEG1
ATOM	1971	HD21	LEU	128	-11.309	-6.673	-0.659	1.00	2.06	SEG1
ATOM	1972	HD22	LEU	128	-12.346	-7.866	0.120	1.00	1.98	SEG1
ATOM	1973	HD23	LEU	128	-11.997	-7.994	-1.602	1.00	2.07	SEG1
ATOM	1974	C	LEU	128	-10.481	-11.091	-3.259	1.00	0.50	SEG1
ATOM	1975	O	LEU	128	-10.738	-10.647	-4.362	1.00	0.55	SEG1
ATOM	1976	N	LEU	129	-9.800	-12.201	-3.113	1.00	0.47	SEG1
ATOM	1977	HN	LEU	129	-9.601	-12.539	-2.214	1.00	0.46	SEG1
ATOM	1978	CA	LEU	129	-9.322	-12.948	-4.318	1.00	0.49	SEG1
ATOM	1979	HA	LEU	129	-8.785	-12.283	-4.976	1.00	0.53	SEG1
ATOM	1980	CB	LEU	129	-8.372	-14.026	-3.786	1.00	0.49	SEG1
ATOM	1981	HB1	LEU	129	-8.025	-14.635	-4.607	1.00	0.53	SEG1
ATOM	1982	HB2	LEU	129	-8.898	-14.647	-3.075	1.00	0.48	SEG1
ATOM	1983	CG	LEU	129	-7.167	-13.372	-3.095	1.00	0.50	SEG1
ATOM	1984	HG	LEU	129	-7.513	-12.769	-2.268	1.00	0.48	SEG1
ATOM	1985	CD1	LEU	129	-6.229	-14.460	-2.570	1.00	0.54	SEG1
ATOM	1986	HD11	LEU	129	-6.789	-15.368	-2.400	1.00	1.15	SEG1
ATOM	1987	HD12	LEU	129	-5.782	-14.134	-1.643	1.00	1.15	SEG1
ATOM	1988	HD13	LEU	129	-5.452	-14.648	-3.297	1.00	1.18	SEG1
ATOM	1989	CD2	LEU	129	-6.406	-12.490	-4.094	1.00	0.59	SEG1

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ATOM   1990 HD21 LEU   129      -6.990 -11.598  -4.296  1.00  1.13      SEG1
ATOM   1991 HD22 LEU   129      -6.253 -13.036  -5.013  1.00  1.11      SEG1
ATOM   1992 HD23 LEU   129      -5.450 -12.215  -3.675  1.00  1.28      SEG1
ATOM   1993 C    LEU   129     -10.501 -13.585  -5.061  1.00  0.54      SEG1
ATOM   1994 C    LEU   129     -10.542 -13.597  -6.278  1.00  0.60      SEG1
ATOM   1995 N    ALA   130     -11.454 -14.118  -4.340  1.00  0.56      SEG1
ATOM   1996 HN   ALA   130     -11.393 -14.098  -3.261  1.00  0.54      SEG1
ATOM   1997 CA   ALA   130     -12.631 -14.765  -5.003  1.00  0.64      SEG1
ATOM   1998 HA   ALA   130     -12.299 -15.512  -5.706  1.00  0.73      SEG1
ATOM   1999 CB   ALA   130     -13.418 -15.429  -3.871  1.00  0.72      SEG1
ATOM   2000 HB1  ALA   130     -14.057 -16.197  -4.281  1.00  1.23      SEG1
ATOM   2001 HB2  ALA   130     -14.022 -14.688  -3.369  1.00  1.22      SEG1
ATOM   2002 HB3  ALA   130     -12.730 -15.871  -3.166  1.00  1.30      SEG1
ATOM   2003 C    ALA   130     -13.497 -13.718  -5.711  1.00  0.59      SEG1
ATOM   2004 O    ALA   130     -13.759 -13.818  -6.895  1.00  0.64      SEG1
ATOM   2005 N    ASP   131     -13.948 -12.720  -4.992  1.00  0.55      SEG1
ATOM   2006 HN   ASP   131     -13.727 -12.667  -4.039  1.00  0.57      SEG1
ATOM   2007 CA   ASP   131     -14.807 -11.669  -5.616  1.00  0.53      SEG1
ATOM   2008 HA   ASP   131     -15.173 -12.001  -6.574  1.00  0.58      SEG1
ATOM   2009 CB   ASP   131     -15.975 -11.489  -4.646  1.00  0.61      SEG1
ATOM   2010 HB1  ASP   131     -16.552 -10.623  -4.934  1.00  0.74      SEG1
ATOM   2011 HB2  ASP   131     -15.592 -11.350  -3.645  1.00  0.91      SEG1
ATOM   2012 CG   ASP   131     -16.867 -12.730  -4.685  1.00  0.99      SEG1
ATOM   2013 OD1  ASP   131     -17.317 -13.145  -3.630  1.00  1.79      SEG1
ATOM   2014 OD2  ASP   131     -17.089 -13.242  -5.770  1.00  1.43      SEG1
ATOM   2015 C    ASP   131     -14.029 -10.359  -5.764  1.00  0.45      SEG1
ATOM   2016 O    ASP   131     -13.505  -9.828  -4.803  1.00  0.42      SEG1
ATOM   2017 N    GLU   132     -13.956  -9.838  -6.962  1.00  0.46      SEG1
ATOM   2018 HN   GLU   132     -14.390 -10.287  -7.717  1.00  0.51      SEG1
ATOM   2019 CA   GLU   132     -13.217  -8.561  -7.183  1.00  0.45      SEG1
ATOM   2020 HA   GLU   132     -12.367  -8.499  -6.522  1.00  0.44      SEG1
ATOM   2021 CB   GLU   132     -12.744  -8.621  -8.637  1.00  0.54      SEG1
ATOM   2022 HB1  GLU   132     -12.350  -7.659  -8.928  1.00  1.06      SEG1
ATOM   2023 HB2  GLU   132     -13.576  -8.878  -9.276  1.00  0.88      SEG1
ATOM   2024 CG   GLU   132     -11.645  -9.683  -8.771  1.00  1.23      SEG1
ATOM   2025 HG1  GLU   132     -12.041 -10.644  -8.476  1.00  1.67      SEG1
ATOM   2026 HG2  GLU   132     -10.818  -9.425  -8.126  1.00  1.77      SEG1
ATOM   2027 CD   GLU   132     -11.152  -9.764 -10.224  1.00  1.29      SEG1
ATOM   2028 OE1  GLU   132     -10.154 -10.430 -10.447  1.00  1.79      SEG1
ATOM   2029 OE2  GLU   132     -11.777  -9.167 -11.088  1.00  1.59      SEG1
ATOM   2030 C    GLU   132     -14.150  -7.366  -6.964  1.00  0.43      SEG1
ATOM   2031 O    GLU   132     -13.732  -6.321  -6.510  1.00  0.42      SEG1
ATOM   2032 N    GLU   133     -15.410  -7.511  -7.280  1.00  0.46      SEG1
ATOM   2033 HN   GLU   133     -15.727  -8.365  -7.645  1.00  0.49      SEG1
ATOM   2034 CA   GLU   133     -16.367  -6.377  -7.082  1.00  0.47      SEG1
ATOM   2035 HA   GLU   133     -16.061  -5.520  -7.660  1.00  0.50      SEG1
ATOM   2036 CB   GLU   133     -17.717  -6.894  -7.586  1.00  0.53      SEG1
ATOM   2037 HB1  GLU   133     -18.493  -6.195  -7.315  1.00  0.71      SEG1
ATOM   2038 HB2  GLU   133     -17.924  -7.855  -7.136  1.00  0.75      SEG1
ATOM   2039 CG   GLU   133     -17.676  -7.041  -9.111  1.00  0.96      SEG1
ATOM   2040 HG1  GLU   133     -16.898  -7.739  -9.381  1.00  1.39      SEG1
ATOM   2041 HG2  GLU   133     -17.465  -6.081  -9.558  1.00  1.25      SEG1
ATOM   2042 CD   GLU   133     -19.025  -7.560  -9.633  1.00  1.18      SEG1
ATOM   2043 OE1  GLU   133     -19.853  -7.956  -8.824  1.00  1.50      SEG1
ATOM   2044 OE2  GLU   133     -19.207  -7.554 -10.840  1.00  1.83      SEG1
ATOM   2045 C    GLU   133     -16.460  -6.017  -5.594  1.00  0.41      SEG1
ATOM   2046 O    GLU   133     -16.538  -4.858  -5.228  1.00  0.41      SEG1
ATOM   2047 N    ARG   134     -16.469  -7.008  -4.738  1.00  0.40      SEG1
ATOM   2048 HN   ARG   134     -16.419  -7.931  -5.065  1.00  0.42      SEG1
ATOM   2049 CA   ARG   134     -16.581  -6.744  -3.268  1.00  0.39      SEG1
ATOM   2050 HA   ARG   134     -17.502  -6.226  -3.058  1.00  0.42      SEG1
ATOM   2051 CB   ARG   134     -16.619  -8.118  -2.603  1.00  0.44      SEG1
ATOM   2052 HB1  ARG   134     -16.526  -8.002  -1.534  1.00  0.68      SEG1
ATOM   2053 HB2  ARG   134     -15.802  -8.720  -2.974  1.00  0.63      SEG1
ATOM   2054 CG   ARG   134     -17.947  -8.802  -2.925  1.00  0.71      SEG1
ATOM   2055 HG1  ARG   134     -18.030  -8.947  -3.991  1.00  1.28      SEG1
ATOM   2056 HG2  ARG   134     -18.764  -8.186  -2.578  1.00  1.12      SEG1
ATOM   2057 CD   ARG   134     -17.992 -10.158  -2.222  1.00  1.16      SEG1
ATOM   2058 HD1  ARG   134     -17.945 -10.023  -1.153  1.00  1.47      SEG1
ATOM   2059 HD2  ARG   134     -17.175 -10.779  -2.559  1.00  1.71      SEG1
ATOM   2060 NE   ARG   134     -19.306 -10.767  -2.603  1.00  1.51      SEG1
ATOM   2061 HE   ARG   134     -19.918 -10.269  -3.186  1.00  1.74      SEG1
ATOM   2062 CZ   ARG   134     -19.655 -11.965  -2.177  1.00  2.12      SEG1
ATOM   2063 NH1  ARG   134     -20.802 -12.464  -2.549  1.00  2.52      SEG1
ATOM   2064 HH11 ARG   134     -21.405 -11.938  -3.149  1.00  2.52      SEG1
ATOM   2065 HH12 ARG   134     -21.078 -13.372  -2.234  1.00  3.06      SEG1
ATOM   2066 NH2  ARG   134     -18.878 -12.667  -1.383  1.00  2.76      SEG1
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ATOM	2067	HH21	ARG	134	-17.998	-12.302	-1.083	1.00	2.75	SEG1
ATOM	2068	HH22	ARG	134	-19.169	-13.573	-1.077	1.00	3.44	SEG1
ATOM	2069	C	ARG	134	-15.395	-5.931	-2.734	1.00	0.34	SEG1
ATOM	2070	O	ARG	134	-15.571	-5.067	-1.895	1.00	0.36	SEG1
ATOM	2071	N	CYS	135	-14.188	-6.202	-3.184	1.00	0.33	SEG1
ATOM	2072	HN	CYS	135	-14.056	-6.911	-3.848	1.00	0.34	SEG1
ATOM	2073	CA	CYS	135	-13.012	-5.435	-2.535	1.00	0.31	SEG1
ATOM	2074	HA	CYS	135	-12.925	-5.615	-1.534	1.00	0.32	SEG1
ATOM	2075	CB	CYS	135	-11.763	-6.017	-3.370	1.00	0.35	SEG1
ATOM	2076	HB1	CYS	135	-11.888	-7.086	-3.473	1.00	0.38	SEG1
ATOM	2077	HB2	CYS	135	-10.893	-5.826	-2.763	1.00	0.37	SEG1
ATOM	2078	SG	CYS	135	-11.491	-5.291	-5.018	1.00	0.41	SEG1
ATOM	2079	HG	CYS	135	-10.551	-5.117	-5.113	1.00	0.98	SEG1
ATOM	2080	C	CYS	135	-13.203	-3.927	-2.892	1.00	0.31	SEG1
ATOM	2081	O	CYS	135	-12.861	-3.112	-2.056	1.00	0.32	SEG1
ATOM	2082	N	LEU	136	-13.754	-3.560	-4.022	1.00	0.34	SEG1
ATOM	2083	HN	LEU	136	-14.026	-4.240	-4.675	1.00	0.36	SEG1
ATOM	2084	CA	LEU	136	-13.977	-2.111	-4.312	1.00	0.39	SEG1
ATOM	2085	HA	LEU	136	-13.043	-1.573	-4.293	1.00	0.41	SEG1
ATOM	2086	CB	LEU	136	-14.578	-2.074	-5.720	1.00	0.44	SEG1
ATOM	2087	HB1	LEU	136	-14.869	-1.063	-5.962	1.00	0.48	SEG1
ATOM	2088	HB2	LEU	136	-15.445	-2.718	-5.757	1.00	0.44	SEG1
ATOM	2089	CG	LEU	136	-13.538	-2.559	-6.730	1.00	0.46	SEG1
ATOM	2090	HG	LEU	136	-13.158	-3.522	-6.420	1.00	0.44	SEG1
ATOM	2091	CD1	LEU	136	-14.188	-2.690	-8.109	1.00	0.54	SEG1
ATOM	2092	HD11	LEU	136	-14.407	-1.707	-8.498	1.00	1.21	SEG1
ATOM	2093	HD12	LEU	136	-15.104	-3.256	-8.022	1.00	1.19	SEG1
ATOM	2094	HD13	LEU	136	-13.511	-3.201	-8.778	1.00	1.03	SEG1
ATOM	2095	CD2	LEU	136	-12.388	-1.553	-6.802	1.00	0.49	SEG1
ATOM	2096	HD21	LEU	136	-11.833	-1.575	-5.875	1.00	1.08	SEG1
ATOM	2097	HD22	LEU	136	-12.785	-0.562	-6.960	1.00	1.12	SEG1
ATOM	2098	HD23	LEU	136	-11.732	-1.813	-7.620	1.00	1.19	SEG1
ATOM	2099	C	LEU	136	-14.959	-1.519	-3.296	1.00	0.39	SEG1
ATOM	2100	O	LEU	136	-14.768	-0.426	-2.797	1.00	0.43	SEG1
ATOM	2101	N	SER	137	-16.009	-2.240	-2.989	1.00	0.38	SEG1
ATOM	2102	HN	SER	137	-16.134	-3.118	-3.410	1.00	0.37	SEG1
ATOM	2103	CA	SER	137	-17.017	-1.733	-2.003	1.00	0.43	SEG1
ATOM	2104	HA	SER	137	-17.464	-0.822	-2.363	1.00	0.48	SEG1
ATOM	2105	CB	SER	137	-18.078	-2.830	-1.911	1.00	0.48	SEG1
ATOM	2106	HB1	SER	137	-18.773	-2.591	-1.117	1.00	1.02	SEG1
ATOM	2107	HB2	SER	137	-17.605	-3.775	-1.698	1.00	1.21	SEG1
ATOM	2108	OG	SER	137	-18.768	-2.922	-3.150	1.00	1.35	SEG1
ATOM	2109	HG	SER	137	-18.239	-3.459	-3.745	1.00	1.57	SEG1
ATOM	2110	C	SER	137	-16.371	-1.502	-0.633	1.00	0.41	SEG1
ATOM	2111	O	SER	137	-16.674	-0.542	0.050	1.00	0.46	SEG1
ATOM	2112	N	CYS	138	-15.499	-2.386	-0.225	1.00	0.36	SEG1
ATOM	2113	HN	CYS	138	-15.285	-3.154	-0.795	1.00	0.35	SEG1
ATOM	2114	CA	CYS	138	-14.839	-2.239	1.111	1.00	0.37	SEG1
ATOM	2115	HA	CYS	138	-15.576	-2.070	1.877	1.00	0.42	SEG1
ATOM	2116	CB	CYS	138	-14.131	-3.571	1.358	1.00	0.39	SEG1
ATOM	2117	HB1	CYS	138	-13.360	-3.435	2.101	1.00	0.40	SEG1
ATOM	2118	HB2	CYS	138	-13.685	-3.917	0.436	1.00	0.38	SEG1
ATOM	2119	SG	CYS	138	-15.330	-4.793	1.944	1.00	0.46	SEG1
ATOM	2120	HG	CYS	138	-15.160	-4.953	2.875	1.00	0.97	SEG1
ATOM	2121	C	CYS	138	-13.819	-1.102	1.096	1.00	0.35	SEG1
ATOM	2122	O	CYS	138	-13.814	-0.249	1.964	1.00	0.40	SEG1
ATOM	2123	N	ILE	139	-12.950	-1.094	0.123	1.00	0.33	SEG1
ATOM	2124	HN	ILE	139	-12.979	-1.798	-0.557	1.00	0.33	SEG1
ATOM	2125	CA	ILE	139	-11.913	-0.019	0.049	1.00	0.35	SEG1
ATOM	2126	HA	ILE	139	-11.300	-0.030	0.938	1.00	0.37	SEG1
ATOM	2127	CB	ILE	139	-11.060	-0.363	-1.178	1.00	0.37	SEG1
ATOM	2128	HB	ILE	139	-11.686	-0.387	-2.059	1.00	0.39	SEG1
ATOM	2129	CG1	ILE	139	-10.397	-1.729	-0.980	1.00	0.37	SEG1
ATOM	2130	HG11	ILE	139	-11.136	-2.454	-0.677	1.00	0.35	SEG1
ATOM	2131	HG12	ILE	139	-9.635	-1.651	-0.218	1.00	0.40	SEG1
ATOM	2132	CG2	ILE	139	-9.968	0.694	-1.355	1.00	0.43	SEG1
ATOM	2133	HG21	ILE	139	-10.413	1.677	-1.347	1.00	1.04	SEG1
ATOM	2134	HG22	ILE	139	-9.462	0.535	-2.296	1.00	1.13	SEG1
ATOM	2135	HG23	ILE	139	-9.257	0.613	-0.546	1.00	1.14	SEG1
ATOM	2136	CD1	ILE	139	-9.757	-2.175	-2.295	1.00	0.44	SEG1
ATOM	2137	HD11	ILE	139	-8.882	-2.772	-2.088	1.00	1.04	SEG1
ATOM	2138	HD12	ILE	139	-9.473	-1.305	-2.969	1.00	1.04	SEG1
ATOM	2139	HD13	ILE	139	-10.468	-2.761	-2.859	1.00	1.12	SEG1
ATOM	2140	C	ILE	139	-12.584	1.351	-0.113	1.00	0.42	SEG1
ATOM	2141	O	ILE	139	-12.169	2.323	0.490	1.00	0.49	SEG1
ATOM	2142	N	LEU	140	-13.614	1.435	-0.918	1.00	0.44	SEG1
ATOM	2143	HN	LEU	140	-13.932	0.638	-1.393	1.00	0.41	SEG1

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ATOM	2144	CA	LEU	140	-14.306	2.745	-1.114	1.00	0.55	SEG1
ATOM	2145	HA	LEU	140	-13.576	3.535	-1.113	1.00	0.57	SEG1
ATOM	2146	CB	LEU	140	-14.942	2.645	-2.525	1.00	0.64	SEG1
ATOM	2147	HB1	LEU	140	-14.431	1.871	-3.076	1.00	0.65	SEG1
ATOM	2148	HB2	LEU	140	-14.805	3.585	-3.041	1.00	0.87	SEG1
ATOM	2149	CG	LEU	140	-16.445	2.313	-2.473	1.00	0.63	SEG1
ATOM	2150	HG	LEU	140	-16.635	1.638	-1.651	1.00	0.60	SEG1
ATOM	2151	CD1	LEU	140	-17.251	3.602	-2.271	1.00	0.95	SEG1
ATOM	2152	HD11	LEU	140	-16.602	4.380	-1.896	1.00	1.34	SEG1
ATOM	2153	HD12	LEU	140	-18.043	3.422	-1.558	1.00	1.62	SEG1
ATOM	2154	HD13	LEU	140	-17.679	3.915	-3.212	1.00	1.37	SEG1
ATOM	2155	CD2	LEU	140	-16.862	1.649	-3.788	1.00	0.62	SEG1
ATOM	2156	HD21	LEU	140	-17.839	1.204	-3.573	1.00	1.13	SEG1
ATOM	2157	HD22	LEU	140	-16.146	0.884	-4.048	1.00	1.26	SEG1
ATOM	2158	HD23	LEU	140	-16.895	2.391	-4.572	1.00	1.20	SEG1
ATOM	2159	C	LEU	140	-15.323	3.001	-0.020	1.00	0.59	SEG1
ATOM	2160	O	LEU	140	-15.806	4.106	-0.184	1.00	0.71	SEG1
ATOM	2161	N	ALA	141	-15.638	1.997	-0.805	1.00	0.54	SEG1
ATOM	2162	HN	ALA	141	-15.231	1.117	-0.664	1.00	0.47	SEG1
ATOM	2163	CA	ALA	141	-16.605	2.196	-1.928	1.00	0.63	SEG1
ATOM	2164	HA	ALA	141	-17.502	2.676	-1.571	1.00	0.73	SEG1
ATOM	2165	CB	ALA	141	-16.931	0.790	-2.436	1.00	0.67	SEG1
ATOM	2166	HB1	ALA	141	-16.138	0.112	-2.153	1.00	1.22	SEG1
ATOM	2167	HB2	ALA	141	-17.862	0.457	-2.001	1.00	1.22	SEG1
ATOM	2168	HB3	ALA	141	-17.022	0.807	-3.511	1.00	1.18	SEG1
ATOM	2169	C	ALA	141	-15.958	3.032	-3.040	1.00	0.61	SEG1
ATOM	2170	O	ALA	141	-16.639	3.641	-3.844	1.00	0.65	SEG1
ATOM	2171	N	GLN	142	-14.646	3.066	-3.090	1.00	0.61	SEG1
ATOM	2172	HN	GLN	142	-14.118	2.569	-2.433	1.00	0.64	SEG1
ATOM	2173	CA	GLN	142	-13.951	3.862	-4.144	1.00	0.64	SEG1
ATOM	2174	HA	GLN	142	-14.603	4.024	-4.987	1.00	0.70	SEG1
ATOM	2175	CB	GLN	142	-12.756	3.000	-4.564	1.00	0.65	SEG1
ATOM	2176	HB1	GLN	142	-12.100	3.577	-5.197	1.00	1.05	SEG1
ATOM	2177	HB2	GLN	142	-12.217	2.678	-3.682	1.00	1.01	SEG1
ATOM	2178	CG	GLN	142	-13.256	1.772	-5.332	1.00	1.11	SEG1
ATOM	2179	HG1	GLN	142	-14.028	1.279	-4.761	1.00	1.54	SEG1
ATOM	2180	HG2	GLN	142	-13.658	2.085	-6.285	1.00	1.56	SEG1
ATOM	2181	CD	GLN	142	-12.096	0.798	-5.563	1.00	1.13	SEG1
ATOM	2182	OE1	GLN	142	-11.089	0.860	-4.887	1.00	0.88	SEG1
ATOM	2183	NE2	GLN	142	-12.200	-0.110	-6.496	1.00	1.49	SEG1
ATOM	2184	HE21	GLN	142	-13.014	-0.163	-7.039	1.00	1.77	SEG1
ATOM	2185	HE22	GLN	142	-11.464	-0.737	-6.653	1.00	1.52	SEG1
ATOM	2186	C	GLN	142	-13.480	5.202	-3.566	1.00	0.65	SEG1
ATOM	2187	O	GLN	142	-12.790	5.247	-2.566	1.00	0.65	SEG1
ATOM	2188	N	GLN	143	-13.855	6.292	-4.190	1.00	0.74	SEG1
ATOM	2189	HN	GLN	143	-14.414	6.225	-4.992	1.00	0.80	SEG1
ATOM	2190	CA	GLN	143	-13.439	7.636	-3.682	1.00	0.83	SEG1
ATOM	2191	HA	GLN	143	-13.555	7.684	-2.611	1.00	0.85	SEG1
ATOM	2192	CB	GLN	143	-14.388	8.631	-4.353	1.00	0.97	SEG1
ATOM	2193	HB1	GLN	143	-14.037	9.637	-4.178	1.00	1.46	SEG1
ATOM	2194	HB2	GLN	143	-14.416	8.439	-5.416	1.00	1.09	SEG1
ATOM	2195	CG	GLN	143	-15.793	8.476	-3.769	1.00	1.27	SEG1
ATOM	2196	HG1	GLN	143	-16.159	7.480	-3.968	1.00	1.58	SEG1
ATOM	2197	HG2	GLN	143	-15.760	8.642	-2.701	1.00	1.81	SEG1
ATOM	2198	CD	GLN	143	-16.727	9.499	-4.417	1.00	1.60	SEG1
ATOM	2199	OE1	GLN	143	-16.864	9.534	-5.624	1.00	1.78	SEG1
ATOM	2200	NE2	GLN	143	-17.377	10.343	-3.663	1.00	2.32	SEG1
ATOM	2201	HE21	GLN	143	-17.265	10.317	-2.689	1.00	2.64	SEG1
ATOM	2202	HE22	GLN	143	-17.978	11.002	-4.070	1.00	2.75	SEG1
ATOM	2203	C	GLN	143	-11.984	7.936	-4.075	1.00	0.85	SEG1
ATOM	2204	O	GLN	143	-11.506	7.443	-5.078	1.00	0.92	SEG1
ATOM	2205	N	PRO	144	-11.317	8.740	-3.272	1.00	0.88	SEG1
ATOM	2206	CA	PRO	144	-9.905	9.093	-3.561	1.00	0.95	SEG1
ATOM	2207	HA	PRO	144	-9.322	8.206	-3.736	1.00	1.00	SEG1
ATOM	2208	CB	PRO	144	-9.435	9.784	-2.283	1.00	1.01	SEG1
ATOM	2209	HB1	PRO	144	-8.960	9.074	-1.624	1.00	1.08	SEG1
ATOM	2210	HB2	PRO	144	-8.757	10.592	-2.522	1.00	1.06	SEG1
ATOM	2211	CG	PRO	144	-10.680	10.315	-1.651	1.00	1.03	SEG1
ATOM	2212	HG1	PRO	144	-10.574	10.327	-0.577	1.00	1.13	SEG1
ATOM	2213	HG2	PRO	144	-10.882	11.313	-2.015	1.00	1.06	SEG1
ATOM	2214	CD	PRO	144	-11.798	9.385	-2.039	1.00	0.96	SEG1
ATOM	2215	HD2	PRO	144	-12.705	9.943	-2.228	1.00	1.00	SEG1
ATOM	2216	HD1	PRO	144	-11.958	8.644	-1.273	1.00	1.01	SEG1
ATOM	2217	C	PRO	144	-9.821	10.047	-4.759	1.00	0.99	SEG1
ATOM	2218	O	PRO	144	-10.815	10.594	-5.199	1.00	1.45	SEG1
ATOM	2219	N	ASP	145	-8.638	10.250	-5.283	1.00	0.92	SEG1
ATOM	2220	HN	ASP	145	-7.856	9.800	-4.904	1.00	1.14	SEG1

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ATOM	2221	CA	ASP	145	-8.471	11.168	6.448	1.00	1.02	SEG1
ATOM	2222	HA	ASP	145	-9.243	11.921	6.450	1.00	1.13	SEG1
ATOM	2223	CB	ASP	145	-8.605	10.277	7.683	1.00	1.23	SEG1
ATOM	2224	HB1	ASP	145	-7.754	9.617	7.744	1.00	1.40	SEG1
ATOM	2225	HB2	ASP	145	-9.511	9.693	7.607	1.00	1.68	SEG1
ATOM	2226	CG	ASP	145	-8.663	11.150	8.938	1.00	1.86	SEG1
ATOM	2227	OD1	ASP	145	-9.712	11.193	9.559	1.00	2.54	SEG1
ATOM	2228	OD2	ASP	145	-7.656	11.761	9.257	1.00	2.40	SEG1
ATOM	2229	C	ASP	145	-7.086	11.818	6.405	1.00	0.94	SEG1
ATOM	2230	O	ASP	145	-6.127	11.296	6.943	1.00	0.94	SEG1
ATOM	2231	N	ARG	146	-6.980	12.951	5.763	1.00	1.05	SEG1
ATOM	2232	HN	ARG	146	-7.770	13.341	5.337	1.00	1.19	SEG1
ATOM	2233	CA	ARG	146	-5.662	13.650	5.669	1.00	1.10	SEG1
ATOM	2234	HA	ARG	146	-4.856	12.934	5.648	1.00	1.16	SEG1
ATOM	2235	CB	ARG	146	-5.720	14.400	4.339	1.00	1.42	SEG1
ATOM	2236	HB1	ARG	146	-4.879	15.074	4.269	1.00	1.92	SEG1
ATOM	2237	HB2	ARG	146	-6.639	14.965	4.287	1.00	1.98	SEG1
ATOM	2238	CG	ARG	146	-5.668	13.403	3.181	1.00	1.52	SEG1
ATOM	2239	HG1	ARG	146	-6.469	12.687	3.283	1.00	1.96	SEG1
ATOM	2240	HG2	ARG	146	-4.719	12.886	3.193	1.00	1.91	SEG1
ATOM	2241	CD	ARG	146	-5.826	14.157	1.858	1.00	1.77	SEG1
ATOM	2242	HD1	ARG	146	-6.739	14.730	1.864	1.00	2.23	SEG1
ATOM	2243	HD2	ARG	146	-5.818	13.463	1.028	1.00	1.99	SEG1
ATOM	2244	NE	ARG	146	-4.645	15.074	1.789	1.00	2.23	SEG1
ATOM	2245	HE	ARG	146	-3.845	14.864	2.315	1.00	2.67	SEG1
ATOM	2246	CZ	ARG	146	-4.656	16.158	1.037	1.00	2.70	SEG1
ATOM	2247	NH1	ARG	146	-3.598	16.921	1.010	1.00	3.55	SEG1
ATOM	2248	HH11	ARG	146	-2.794	16.682	1.556	1.00	3.97	SEG1
ATOM	2249	HH12	ARG	146	-3.590	17.746	0.443	1.00	3.99	SEG1
ATOM	2250	NH2	ARG	146	-5.703	16.487	0.313	1.00	2.82	SEG1
ATOM	2251	HH21	ARG	146	-6.522	15.917	0.317	1.00	2.74	SEG1
ATOM	2252	HH22	ARG	146	-5.679	17.317	-0.245	1.00	3.37	SEG1
ATOM	2253	C	ARG	146	-5.469	14.641	6.829	1.00	0.99	SEG1
ATOM	2254	O	ARG	146	-4.407	15.215	6.981	1.00	0.96	SEG1
ATOM	2255	N	LEU	147	-6.480	14.856	7.640	1.00	1.03	SEG1
ATOM	2256	HN	LEU	147	-7.330	14.391	7.500	1.00	1.10	SEG1
ATOM	2257	CA	LEU	147	-6.336	15.821	8.777	1.00	1.07	SEG1
ATOM	2258	HA	LEU	147	-6.140	16.813	8.406	1.00	1.17	SEG1
ATOM	2259	CB	LEU	147	-7.683	15.794	9.504	1.00	1.28	SEG1
ATOM	2260	HB1	LEU	147	-7.603	16.343	10.431	1.00	1.65	SEG1
ATOM	2261	HB2	LEU	147	-7.958	14.770	9.716	1.00	1.48	SEG1
ATOM	2262	CG	LEU	147	-8.755	16.439	8.625	1.00	1.81	SEG1
ATOM	2263	HG	LEU	147	-8.746	15.975	7.649	1.00	2.37	SEG1
ATOM	2264	CD1	LEU	147	-10.128	16.239	9.268	1.00	2.27	SEG1
ATOM	2265	HD11	LEU	147	-10.862	16.833	8.743	1.00	2.67	SEG1
ATOM	2266	HD12	LEU	147	-10.089	16.548	10.302	1.00	2.60	SEG1
ATOM	2267	HD13	LEU	147	-10.403	15.197	9.214	1.00	2.67	SEG1
ATOM	2268	CD2	LEU	147	-8.471	17.936	8.485	1.00	2.31	SEG1
ATOM	2269	HD21	LEU	147	-9.400	18.467	8.341	1.00	2.50	SEG1
ATOM	2270	HD22	LEU	147	-7.827	18.103	7.634	1.00	2.84	SEG1
ATOM	2271	HD23	LEU	147	-7.985	18.296	9.380	1.00	2.68	SEG1
ATOM	2272	C	LEU	147	-5.217	15.372	9.720	1.00	0.95	SEG1
ATOM	2273	O	LEU	147	-4.415	16.168	10.171	1.00	1.02	SEG1
ATOM	2274	N	ARG	148	-5.166	14.103	10.020	1.00	0.90	SEG1
ATOM	2275	HN	ARG	148	-5.829	13.489	9.643	1.00	0.90	SEG1
ATOM	2276	CA	ARG	148	-4.108	13.582	10.939	1.00	1.02	SEG1
ATOM	2277	HA	ARG	148	-3.994	14.241	11.785	1.00	1.19	SEG1
ATOM	2278	CB	ARG	148	-4.616	12.221	11.414	1.00	1.08	SEG1
ATOM	2279	HB1	ARG	148	-3.828	11.707	11.943	1.00	1.58	SEG1
ATOM	2280	HB2	ARG	148	-4.920	11.632	10.560	1.00	1.16	SEG1
ATOM	2281	CG	ARG	148	-5.809	12.416	12.349	1.00	1.69	SEG1
ATOM	2282	HG1	ARG	148	-6.602	12.921	11.818	1.00	2.05	SEG1
ATOM	2283	HG2	ARG	148	-5.507	13.011	13.198	1.00	2.34	SEG1
ATOM	2284	CD	ARG	148	-6.309	11.052	12.827	1.00	1.94	SEG1
ATOM	2285	HD1	ARG	148	-5.530	10.532	13.364	1.00	2.37	SEG1
ATOM	2286	HD2	ARG	148	-6.650	10.461	11.987	1.00	2.25	SEG1
ATOM	2287	NE	ARG	148	-7.443	11.363	13.746	1.00	2.31	SEG1
ATOM	2288	HE	ARG	148	-8.363	11.204	13.446	1.00	2.69	SEG1
ATOM	2289	CZ	ARG	148	-7.232	11.843	14.957	1.00	2.75	SEG1
ATOM	2290	NH1	ARG	148	-8.253	12.092	15.731	1.00	3.51	SEG1
ATOM	2291	HH11	ARG	148	-9.181	11.918	15.404	1.00	3.86	SEG1
ATOM	2292	HH12	ARG	148	-8.106	12.458	16.650	1.00	3.96	SEG1
ATOM	2293	NH2	ARG	148	-6.018	12.081	15.402	1.00	2.95	SEG1
ATOM	2294	HH21	ARG	148	-5.222	11.899	14.825	1.00	2.88	SEG1
ATOM	2295	HH22	ARG	148	-5.890	12.446	16.324	1.00	3.50	SEG1
ATOM	2296	C	ARG	148	-2.769	13.418	10.215	1.00	1.06	SEG1
ATOM	2297	O	ARG	148	-1.730	13.342	10.844	1.00	1.28	SEG1

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ATOM	2298	N	ASP	149	-2.782	13.330	8.904	1.00	1.01	SEG1
ATOM	2299	HN	ASP	149	-3.631	13.370	8.423	1.00	0.94	SEG1
ATOM	2300	CA	ASP	149	-1.501	13.135	8.164	1.00	1.21	SEG1
ATOM	2301	HA	ASP	149	-0.688	12.999	8.853	1.00	1.42	SEG1
ATOM	2302	CB	ASP	149	-1.708	11.849	7.361	1.00	1.48	SEG1
ATOM	2303	HB1	ASP	149	-0.862	11.692	6.711	1.00	1.86	SEG1
ATOM	2304	HB2	ASP	149	-2.606	11.938	6.767	1.00	1.80	SEG1
ATOM	2305	CG	ASP	149	-1.843	10.655	8.316	1.00	1.62	SEG1
ATOM	2306	OD1	ASP	149	-2.324	9.624	7.874	1.00	2.12	SEG1
ATOM	2307	OD2	ASP	149	-1.471	10.790	9.473	1.00	2.10	SEG1
ATOM	2308	C	ASP	149	-1.205	14.314	7.233	1.00	1.03	SEG1
ATOM	2309	O	ASP	149	-0.684	14.133	6.147	1.00	0.90	SEG1
ATOM	2310	N	GLU	150	-1.521	15.516	7.646	1.00	1.07	SEG1
ATOM	2311	HN	GLU	150	-1.934	15.638	8.527	1.00	1.23	SEG1
ATOM	2312	CA	GLU	150	-1.242	16.703	6.776	1.00	0.95	SEG1
ATOM	2313	HA	GLU	150	-1.797	16.629	5.855	1.00	0.95	SEG1
ATOM	2314	CB	GLU	150	-1.718	17.917	7.574	1.00	1.11	SEG1
ATOM	2315	HB1	GLU	150	-1.378	18.821	7.092	1.00	1.44	SEG1
ATOM	2316	HB2	GLU	150	-1.315	17.869	8.576	1.00	1.75	SEG1
ATOM	2317	CG	GLU	150	-3.246	17.919	7.638	1.00	1.35	SEG1
ATOM	2318	HG1	GLU	150	-3.589	17.017	8.120	1.00	1.98	SEG1
ATOM	2319	HG2	GLU	150	-3.646	17.968	6.635	1.00	1.71	SEG1
ATOM	2320	CD	GLU	150	-3.720	19.135	8.436	1.00	1.41	SEG1
ATOM	2321	OE1	GLU	150	-3.787	19.033	9.650	1.00	1.66	SEG1
ATOM	2322	OE2	GLU	150	-4.008	20.148	7.819	1.00	1.91	SEG1
ATOM	2323	C	GLU	150	0.260	16.808	6.485	1.00	0.77	SEG1
ATOM	2324	O	GLU	150	0.661	17.120	5.380	1.00	0.66	SEG1
ATOM	2325	N	GLU	151	1.092	16.546	7.466	1.00	0.79	SEG1
ATOM	2326	HN	GLU	151	0.744	16.293	8.347	1.00	0.90	SEG1
ATOM	2327	CA	GLU	151	2.571	16.627	7.239	1.00	0.70	SEG1
ATOM	2328	HA	GLU	151	2.853	17.630	6.967	1.00	0.73	SEG1
ATOM	2329	CB	GLU	151	3.216	16.244	8.573	1.00	0.82	SEG1
ATOM	2330	HB1	GLU	151	4.279	16.114	8.434	1.00	1.27	SEG1
ATOM	2331	HB2	GLU	151	2.783	15.321	8.931	1.00	1.15	SEG1
ATOM	2332	CG	GLU	151	2.971	17.356	9.600	1.00	1.41	SEG1
ATOM	2333	HG1	GLU	151	1.909	17.490	9.736	1.00	1.98	SEG1
ATOM	2334	HG2	GLU	151	3.404	18.277	9.239	1.00	1.90	SEG1
ATOM	2335	CD	GLU	151	3.613	16.988	10.948	1.00	1.66	SEG1
ATOM	2336	OE1	GLU	151	3.401	17.725	11.898	1.00	2.04	SEG1
ATOM	2337	OE2	GLU	151	4.305	15.982	11.012	1.00	2.22	SEG1
ATOM	2338	C	GLU	151	2.990	15.643	6.144	1.00	0.54	SEG1
ATOM	2339	O	GLU	151	3.816	15.950	5.305	1.00	0.48	SEG1
ATOM	2340	N	LEU	152	2.415	14.468	6.142	1.00	0.54	SEG1
ATOM	2341	HN	LEU	152	1.747	14.252	6.825	1.00	0.63	SEG1
ATOM	2342	CA	LEU	152	2.764	13.460	5.097	1.00	0.46	SEG1
ATOM	2343	HA	LEU	152	3.830	13.295	5.078	1.00	0.44	SEG1
ATOM	2344	CB	LEU	152	2.046	12.171	5.499	1.00	0.55	SEG1
ATOM	2345	HB1	LEU	152	2.098	11.463	4.686	1.00	0.56	SEG1
ATOM	2346	HB2	LEU	152	1.011	12.390	5.717	1.00	0.63	SEG1
ATOM	2347	CG	LEU	152	2.710	11.569	6.736	1.00	0.59	SEG1
ATOM	2348	HG	LEU	152	2.753	12.310	7.522	1.00	0.62	SEG1
ATOM	2349	CD1	LEU	152	1.897	10.365	7.209	1.00	0.70	SEG1
ATOM	2350	HD11	LEU	152	0.850	10.538	7.013	1.00	1.18	SEG1
ATOM	2351	HD12	LEU	152	2.046	10.223	8.269	1.00	1.17	SEG1
ATOM	2352	HD13	LEU	152	2.222	9.481	6.677	1.00	1.38	SEG1
ATOM	2353	CD2	LEU	152	4.126	11.112	6.379	1.00	0.56	SEG1
ATOM	2354	HD21	LEU	152	4.492	10.443	7.144	1.00	1.07	SEG1
ATOM	2355	HD22	LEU	152	4.777	11.971	6.311	1.00	1.17	SEG1
ATOM	2356	HD23	LEU	152	4.108	10.596	5.430	1.00	1.20	SEG1
ATOM	2357	C	LEU	152	2.278	13.931	3.728	1.00	0.46	SEG1
ATOM	2358	O	LEU	152	2.925	13.708	2.725	1.00	0.46	SEG1
ATOM	2359	N	ALA	153	1.138	14.577	3.682	1.00	0.54	SEG1
ATOM	2360	HN	ALA	153	0.636	14.739	4.509	1.00	0.57	SEG1
ATOM	2361	CA	ALA	153	0.599	15.060	2.371	1.00	0.61	SEG1
ATOM	2362	HA	ALA	153	0.408	14.225	1.715	1.00	0.65	SEG1
ATOM	2363	CB	ALA	153	-0.713	15.771	2.711	1.00	0.71	SEG1
ATOM	2364	HB1	ALA	153	-1.536	15.081	2.600	1.00	1.20	SEG1
ATOM	2365	HB2	ALA	153	-0.851	16.609	2.043	1.00	1.25	SEG1
ATOM	2366	HB3	ALA	153	-0.676	16.126	3.730	1.00	1.26	SEG1
ATOM	2367	C	ALA	153	1.587	16.033	1.723	1.00	0.58	SEG1
ATOM	2368	O	ALA	153	1.810	15.997	0.527	1.00	0.63	SEG1
ATOM	2369	N	GLU	154	2.191	16.893	2.502	1.00	0.53	SEG1
ATOM	2370	HN	GLU	154	2.005	16.899	3.464	1.00	0.52	SEG1
ATOM	2371	CA	GLU	154	3.183	17.844	1.924	1.00	0.55	SEG1
ATOM	2372	HA	GLU	154	2.764	18.359	1.073	1.00	0.62	SEG1
ATOM	2373	CB	GLU	154	3.501	18.837	3.044	1.00	0.56	SEG1
ATOM	2374	HB1	GLU	154	4.339	19.451	2.752	1.00	1.06	SEG1

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ATOM	2375	HB2	GLU	154	3.748	18.294	3.945	1.00	0.99	SEG1
ATOM	2376	CG	GLU	154	2.283	19.729	3.300	1.00	1.00	SEG1
ATOM	2377	HG1	GLU	154	1.446	19.112	3.592	1.00	1.52	SEG1
ATOM	2378	HG2	GLU	154	2.034	20.265	2.396	1.00	1.58	SEG1
ATOM	2379	CD	GLU	154	2.583	20.733	4.423	1.00	1.17	SEG1
ATOM	2380	OE1	GLU	154	1.777	21.631	4.612	1.00	1.60	SEG1
ATOM	2381	OE2	GLU	154	3.606	20.591	5.077	1.00	1.77	SEG1
ATOM	2382	C	GLU	154	4.440	17.073	1.518	1.00	0.51	SEG1
ATOM	2383	O	GLU	154	5.039	17.330	0.491	1.00	0.55	SEG1
ATOM	2384	N	LEU	155	4.839	16.127	2.332	1.00	0.45	SEG1
ATOM	2385	HN	LEU	155	4.332	15.950	3.153	1.00	0.44	SEG1
ATOM	2386	CA	LEU	155	6.059	15.323	2.021	1.00	0.43	SEG1
ATOM	2387	HA	LEU	155	6.921	15.964	1.958	1.00	0.47	SEG1
ATOM	2388	CB	LEU	155	6.213	14.356	3.202	1.00	0.40	SEG1
ATOM	2389	HB1	LEU	155	5.335	13.731	3.270	1.00	0.40	SEG1
ATOM	2390	HB2	LEU	155	6.324	14.921	4.116	1.00	0.43	SEG1
ATOM	2391	CG	LEU	155	7.447	13.473	2.994	1.00	0.42	SEG1
ATOM	2392	HG	LEU	155	8.195	14.025	2.445	1.00	0.51	SEG1
ATOM	2393	CD1	LEU	155	8.016	13.060	4.353	1.00	0.42	SEG1
ATOM	2394	HD11	LEU	155	7.475	12.202	4.724	1.00	1.09	SEG1
ATOM	2395	HD12	LEU	155	7.914	13.879	5.050	1.00	1.01	SEG1
ATOM	2396	HD13	LEU	155	9.060	12.808	4.244	1.00	1.13	SEG1
ATOM	2397	CD2	LEU	155	7.054	12.221	2.208	1.00	0.51	SEG1
ATOM	2398	HD21	LEU	155	6.036	11.950	2.447	1.00	1.03	SEG1
ATOM	2399	HD22	LEU	155	7.714	11.408	2.472	1.00	1.18	SEG1
ATOM	2400	HD23	LEU	155	7.134	12.420	1.150	1.00	1.19	SEG1
ATOM	2401	C	LEU	155	5.875	14.554	0.709	1.00	0.46	SEG1
ATOM	2402	O	LEU	155	6.720	14.597	-0.165	1.00	0.51	SEG1
ATOM	2403	N	GLU	156	4.777	13.851	0.568	1.00	0.48	SEG1
ATOM	2404	HN	GLU	156	4.115	13.832	1.289	1.00	0.47	SEG1
ATOM	2405	CA	GLU	156	4.543	13.076	-0.689	1.00	0.55	SEG1
ATOM	2406	HA	GLU	156	5.339	12.362	-0.829	1.00	0.54	SEG1
ATOM	2407	CB	GLU	156	3.215	12.329	-0.491	1.00	0.60	SEG1
ATOM	2408	HB1	GLU	156	3.292	11.687	0.374	1.00	0.58	SEG1
ATOM	2409	HB2	GLU	156	3.011	11.728	-1.365	1.00	0.68	SEG1
ATOM	2410	CG	GLU	156	2.070	13.318	-0.281	1.00	0.64	SEG1
ATOM	2411	HG1	GLU	156	2.015	13.994	-1.120	1.00	0.72	SEG1
ATOM	2412	HG2	GLU	156	2.245	13.874	0.623	1.00	0.57	SEG1
ATOM	2413	CD	GLU	156	0.751	12.553	-0.159	1.00	0.74	SEG1
ATOM	2414	OE1	GLU	156	0.015	12.523	-1.132	1.00	1.30	SEG1
ATOM	2415	OE2	GLU	156	0.500	12.011	0.904	1.00	1.37	SEG1
ATOM	2416	C	GLU	156	4.478	14.025	-1.889	1.00	0.63	SEG1
ATOM	2417	O	GLU	156	4.938	13.700	-2.968	1.00	0.67	SEG1
ATOM	2418	N	ASP	157	3.922	15.199	-1.707	1.00	0.66	SEG1
ATOM	2419	HN	ASP	157	3.566	15.441	-0.826	1.00	0.63	SEG1
ATOM	2420	CA	ASP	157	3.842	16.169	-2.842	1.00	0.76	SEG1
ATOM	2421	HA	ASP	157	3.408	15.697	-3.708	1.00	0.81	SEG1
ATOM	2422	CB	ASP	157	2.940	17.304	-2.351	1.00	0.81	SEG1
ATOM	2423	HB1	ASP	157	2.980	18.123	-3.053	1.00	0.88	SEG1
ATOM	2424	HB2	ASP	157	3.283	17.644	-1.384	1.00	0.76	SEG1
ATOM	2425	CG	ASP	157	1.496	16.805	-2.235	1.00	0.84	SEG1
ATOM	2426	OD1	ASP	157	1.133	15.914	-2.985	1.00	1.26	SEG1
ATOM	2427	OD2	ASP	157	0.778	17.324	-1.397	1.00	1.49	SEG1
ATOM	2428	C	ASP	157	5.237	16.691	-3.171	1.00	0.76	SEG1
ATOM	2429	O	ASP	157	5.597	16.841	-4.323	1.00	0.82	SEG1
ATOM	2430	N	ALA	158	6.029	16.950	-2.165	1.00	0.70	SEG1
ATOM	2431	HN	ALA	158	5.714	16.806	-1.247	1.00	0.66	SEG1
ATOM	2432	CA	ALA	158	7.414	17.444	-2.412	1.00	0.74	SEG1
ATOM	2433	HA	ALA	158	7.396	18.312	-3.051	1.00	0.82	SEG1
ATOM	2434	CB	ALA	158	7.969	17.814	-1.034	1.00	0.72	SEG1
ATOM	2435	HB1	ALA	158	7.160	18.133	-0.394	1.00	1.34	SEG1
ATOM	2436	HB2	ALA	158	8.684	18.617	-1.138	1.00	1.21	SEG1
ATOM	2437	HB3	ALA	158	8.455	16.954	-0.599	1.00	1.17	SEG1
ATOM	2438	C	ALA	158	8.240	16.325	-3.050	1.00	0.70	SEG1
ATOM	2439	O	ALA	158	9.052	16.559	-3.926	1.00	0.77	SEG1
ATOM	2440	N	LEU	159	8.031	15.109	-2.612	1.00	0.62	SEG1
ATOM	2441	HN	LEU	159	7.369	14.957	-1.905	1.00	0.58	SEG1
ATOM	2442	CA	LEU	159	8.797	13.956	-3.181	1.00	0.60	SEG1
ATOM	2443	HA	LEU	159	9.850	14.072	-2.989	1.00	0.63	SEG1
ATOM	2444	CB	LEU	159	8.265	12.717	-2.448	1.00	0.53	SEG1
ATOM	2445	HB1	LEU	159	7.206	12.617	-2.633	1.00	0.53	SEG1
ATOM	2446	HB2	LEU	159	8.437	12.825	-1.388	1.00	0.51	SEG1
ATOM	2447	CG	LEU	159	8.988	11.465	-2.956	1.00	0.54	SEG1
ATOM	2448	HG	LEU	159	8.963	11.453	-4.037	1.00	0.65	SEG1
ATOM	2449	CD1	LEU	159	10.446	11.479	-2.482	1.00	0.76	SEG1
ATOM	2450	HD11	LEU	159	10.731	12.485	-2.214	1.00	1.37	SEG1
ATOM	2451	HD12	LEU	159	11.086	11.124	-3.276	1.00	1.37	SEG1

ATOM	2452	HD13	LEU	159	10.552	10.835	-1.621	1.00	1.16	SEG1
ATOM	2453	CD2	LEU	159	8.283	10.221	-2.416	1.00	0.58	SEG1
ATOM	2454	HD21	LEU	159	8.485	10.124	-1.360	1.00	1.22	SEG1
ATOM	2455	HD22	LEU	159	8.647	9.347	-2.935	1.00	1.13	SEG1
ATOM	2456	HD23	LEU	159	7.218	10.315	-2.572	1.00	1.21	SEG1
ATOM	2457	C	LEU	159	8.534	13.836	-4.688	1.00	0.67	SEG1
ATOM	2458	O	LEU	159	9.438	13.579	-5.460	1.00	0.71	SEG1
ATOM	2459	N	ARG	160	7.303	14.018	-5.111	1.00	0.70	SEG1
ATOM	2460	HN	ARG	160	6.589	14.224	-4.467	1.00	0.68	SEG1
ATOM	2461	CA	ARG	160	6.988	13.912	-6.572	1.00	0.80	SEG1
ATOM	2462	HA	ARG	160	7.205	12.921	-6.932	1.00	0.80	SEG1
ATOM	2463	CB	ARG	160	5.486	14.197	-6.687	1.00	0.86	SEG1
ATOM	2464	HB1	ARG	160	5.277	15.186	-6.310	1.00	1.08	SEG1
ATOM	2465	HB2	ARG	160	4.938	13.467	-6.108	1.00	1.05	SEG1
ATOM	2466	CG	ARG	160	5.054	14.112	-8.156	1.00	1.22	SEG1
ATOM	2467	HG1	ARG	160	5.258	13.121	-8.533	1.00	1.67	SEG1
ATOM	2468	HG2	ARG	160	5.604	14.839	-8.736	1.00	1.51	SEG1
ATOM	2469	CD	ARG	160	3.552	14.396	-8.264	1.00	1.41	SEG1
ATOM	2470	HD1	ARG	160	3.334	15.392	-7.911	1.00	1.63	SEG1
ATOM	2471	HD2	ARG	160	2.992	13.665	-7.699	1.00	1.87	SEG1
ATOM	2472	NE	ARG	160	3.230	14.290	-9.723	1.00	1.88	SEG1
ATOM	2473	HE	ARG	160	3.876	13.872	-10.330	1.00	2.40	SEG1
ATOM	2474	CZ	ARG	160	2.091	14.750	-10.208	1.00	2.25	SEG1
ATOM	2475	NH1	ARG	160	1.851	14.638	-11.487	1.00	3.04	SEG1
ATOM	2476	HH11	ARG	160	2.525	14.208	-12.087	1.00	3.44	SEG1
ATOM	2477	HH12	ARG	160	0.992	14.983	-11.865	1.00	3.46	SEG1
ATOM	2478	NH2	ARG	160	1.193	15.318	-9.436	1.00	2.40	SEG1
ATOM	2479	HH21	ARG	160	1.357	15.414	-8.455	1.00	2.30	SEG1
ATOM	2480	HH22	ARG	160	0.340	15.656	-9.833	1.00	2.98	SEG1
ATOM	2481	C	ARG	160	7.800	14.953	-7.354	1.00	0.90	SEG1
ATOM	2482	O	ARG	160	8.332	14.673	-8.412	1.00	0.97	SEG1
ATOM	2483	N	ASN	161	7.904	16.145	-6.827	1.00	0.92	SEG1
ATOM	2484	HN	ASN	161	7.470	16.332	-5.969	1.00	0.87	SEG1
ATOM	2485	CA	ASN	161	8.690	17.214	-7.516	1.00	1.04	SEG1
ATOM	2486	HA	ASN	161	8.312	17.378	-8.511	1.00	1.11	SEG1
ATOM	2487	CB	ASN	161	8.495	18.472	-6.666	1.00	1.08	SEG1
ATOM	2488	HB1	ASN	161	9.172	19.244	-7.002	1.00	1.35	SEG1
ATOM	2489	HB2	ASN	161	8.697	18.241	-5.631	1.00	1.08	SEG1
ATOM	2490	CG	ASN	161	7.053	18.966	-6.806	1.00	1.59	SEG1
ATOM	2491	OD1	ASN	161	6.414	18.733	-7.812	1.00	2.33	SEG1
ATOM	2492	ND2	ASN	161	6.510	19.642	-5.831	1.00	1.73	SEG1
ATOM	2493	HD21	ASN	161	7.024	19.827	-5.017	1.00	1.70	SEG1
ATOM	2494	HD22	ASN	161	5.588	19.967	-5.913	1.00	2.23	SEG1
ATOM	2495	C	ASN	161	10.169	16.820	-7.563	1.00	1.05	SEG1
ATOM	2496	O	ASN	161	10.850	17.034	-8.548	1.00	1.13	SEG1
ATOM	2497	N	LEU	162	10.663	16.249	-6.497	1.00	0.97	SEG1
ATOM	2498	HN	LEU	162	10.083	16.096	-5.722	1.00	0.90	SEG1
ATOM	2499	CA	LEU	162	12.099	15.831	-6.451	1.00	1.01	SEG1
ATOM	2500	HA	LEU	162	12.742	16.692	-6.547	1.00	1.10	SEG1
ATOM	2501	CB	LEU	162	12.285	15.190	-5.070	1.00	0.95	SEG1
ATOM	2502	HB1	LEU	162	11.617	14.348	-4.973	1.00	1.27	SEG1
ATOM	2503	HB2	LEU	162	12.059	15.918	-4.305	1.00	1.20	SEG1
ATOM	2504	CG	LEU	162	13.732	14.713	-4.908	1.00	1.50	SEG1
ATOM	2505	HG	LEU	162	13.999	14.089	-5.749	1.00	2.22	SEG1
ATOM	2506	CD1	LEU	162	14.672	15.917	-4.852	1.00	1.92	SEG1
ATOM	2507	HD11	LEU	162	15.695	15.573	-4.813	1.00	2.34	SEG1
ATOM	2508	HD12	LEU	162	14.454	16.503	-3.971	1.00	2.30	SEG1
ATOM	2509	HD13	LEU	162	14.531	16.525	-5.732	1.00	2.35	SEG1
ATOM	2510	CD2	LEU	162	13.861	13.906	-3.613	1.00	1.89	SEG1
ATOM	2511	HD21	LEU	162	13.042	13.207	-3.541	1.00	2.44	SEG1
ATOM	2512	HD22	LEU	162	13.837	14.577	-2.766	1.00	2.30	SEG1
ATOM	2513	HD23	LEU	162	14.796	13.366	-3.618	1.00	2.12	SEG1
ATOM	2514	C	LEU	162	12.398	14.813	-7.555	1.00	1.00	SEG1
ATOM	2515	O	LEU	162	13.418	14.886	-8.215	1.00	1.08	SEG1
ATOM	2516	N	LYS	163	11.522	13.861	-7.751	1.00	0.94	SEG1
ATOM	2517	HN	LYS	163	10.711	13.821	-7.201	1.00	0.89	SEG1
ATOM	2518	CA	LYS	163	11.759	12.833	-8.808	1.00	0.96	SEG1
ATOM	2519	HA	LYS	163	12.800	12.550	-8.828	1.00	0.98	SEG1
ATOM	2520	CB	LYS	163	10.900	11.630	-8.406	1.00	0.95	SEG1
ATOM	2521	HB1	LYS	163	9.858	11.914	-8.413	1.00	1.38	SEG1
ATOM	2522	HB2	LYS	163	11.177	11.301	-7.414	1.00	1.07	SEG1
ATOM	2523	CG	LYS	163	11.120	10.491	-9.408	1.00	1.47	SEG1
ATOM	2524	HG1	LYS	163	12.163	10.211	-9.416	1.00	1.90	SEG1
ATOM	2525	HG2	LYS	163	10.830	10.822	-10.395	1.00	2.04	SEG1
ATOM	2526	CD	LYS	163	10.271	9.282	-9.007	1.00	1.66	SEG1
ATOM	2527	HD1	LYS	163	9.224	9.543	-9.061	1.00	1.94	SEG1
ATOM	2528	HD2	LYS	163	10.519	8.991	-7.997	1.00	1.60	SEG1

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ATOM   2529  CE  LYS  163      10.552   8.113  -9.956  1.00  2.53      SEG1
ATOM   2530  HE1 LYS  163      11.609   8.036 -10.158  1.00  2.77      SEG1
ATOM   2531  HE2 LYS  163       9.998   8.236 -10.878  1.00  3.08      SEG1
ATOM   2532  NZ  LYS  163      10.082   6.907  -9.219  1.00  3.06      SEG1
ATOM   2533  HZ1 LYS  163       9.068   7.001  -9.011  1.00  3.11      SEG1
ATOM   2534  HZ2 LYS  163      10.613   6.819  -8.328  1.00  3.52      SEG1
ATOM   2535  HZ3 LYS  163      10.237   6.061  -9.802  1.00  3.54      SEG1
ATOM   2536  C   LYS  163      11.325  13.370 -10.172  1.00  1.08      SEG1
ATOM   2537  O   LYS  163      10.223  13.858 -10.332  1.00  1.51      SEG1
ATOM   2538  N   CYS  164      12.185  13.278 -11.154  1.00  1.37      SEG1
ATOM   2539  HN  CYS  164      13.065  12.878 -10.996  1.00  1.81      SEG1
ATOM   2540  CA  CYS  164      11.828  13.776 -12.516  1.00  1.52      SEG1
ATOM   2541  HA  CYS  164      11.144  14.606 -12.448  1.00  1.31      SEG1
ATOM   2542  CB  CYS  164      13.149  14.234 -13.135  1.00  2.17      SEG1
ATOM   2543  HB1 CYS  164      13.791  13.377 -13.285  1.00  2.58      SEG1
ATOM   2544  HB2 CYS  164      13.634  14.936 -12.472  1.00  2.61      SEG1
ATOM   2545  SG  CYS  164      12.827  15.032 -14.727  1.00  2.71      SEG1
ATOM   2546  HG  CYS  164      12.479  15.910 -14.555  1.00  3.08      SEG1
ATOM   2547  C   CYS  164      11.217  12.641 -13.340  1.00  2.18      SEG1
ATOM   2548  O   CYS  164      11.906  11.728 -13.755  1.00  2.81      SEG1
ATOM   2549  N   GLY  165       9.930  12.688 -13.573  1.00  2.69      SEG1
ATOM   2550  HN  GLY  165       9.397  13.432 -13.222  1.00  2.77      SEG1
ATOM   2551  CA  GLY  165       9.269  11.608 -14.364  1.00  3.67      SEG1
ATOM   2552  HA1 GLY  165       8.369  11.292 -13.859  1.00  4.30      SEG1
ATOM   2553  HA2 GLY  165       9.944  10.768 -14.450  1.00  4.00      SEG1
ATOM   2554  C   GLY  165       8.915  12.119 -15.765  1.00  3.89      SEG1
ATOM   2555  O   GLY  165       7.759  12.181 -16.140  1.00  3.93      SEG1
ATOM   2556  N   SER  166       9.909  12.471 -16.543  1.00  4.51      SEG1
ATOM   2557  HN  SER  166      10.828  12.400 -16.216  1.00  4.82      SEG1
ATOM   2558  CA  SER  166       9.654  12.967 -17.933  1.00  5.11      SEG1
ATOM   2559  HA  SER  166       8.668  13.401 -18.006  1.00  5.04      SEG1
ATOM   2560  CB  SER  166      10.715  14.044 -18.176  1.00  5.85      SEG1
ATOM   2561  HB1 SER  166      11.184  13.880 -19.140  1.00  6.15      SEG1
ATOM   2562  HB2 SER  166      11.465  13.997 -17.405  1.00  6.27      SEG1
ATOM   2563  OG  SER  166      10.095  15.323 -18.149  1.00  6.09      SEG1
ATOM   2564  HG  SER  166      10.696  15.935 -17.717  1.00  6.52      SEG1
ATOM   2565  C   SER  166       9.818  11.829 -18.953  1.00  5.69      SEG1
ATOM   2566  O   SER  166       9.832  12.064 -20.146  1.00  6.05      SEG1
ATOM   2567  N   GLY  167       9.947  10.605 -18.497  1.00  6.17      SEG1
ATOM   2568  HN  GLY  167       9.933  10.434 -17.533  1.00  6.15      SEG1
ATOM   2569  CA  GLY  167      10.115   9.466 -19.445  1.00  7.07      SEG1
ATOM   2570  HA1 GLY  167       9.356   9.521 -20.209  1.00  7.56      SEG1
ATOM   2571  HA2 GLY  167      10.016   8.534 -18.907  1.00  7.20      SEG1
ATOM   2572  C   GLY  167      11.500   9.536 -20.104  1.00  7.52      SEG1
ATOM   2573  O   GLY  167      11.679   9.107 -21.227  1.00  7.72      SEG1
ATOM   2574  N   ALA  168      12.485  10.078 -19.418  1.00  7.99      SEG1
ATOM   2575  HN  ALA  168      12.317  10.421 -18.514  1.00  8.05      SEG1
ATOM   2576  CA  ALA  168      13.867  10.183 -20.008  1.00  8.73      SEG1
ATOM   2577  HA  ALA  168      14.530  10.691 -19.325  1.00  8.71      SEG1
ATOM   2578  CB  ALA  168      14.342   8.737 -20.217  1.00  9.39      SEG1
ATOM   2579  HB1 ALA  168      13.732   8.068 -19.631  1.00  9.67      SEG1
ATOM   2580  HB2 ALA  168      15.373   8.647 -19.905  1.00  9.70      SEG1
ATOM   2581  HB3 ALA  168      14.258   8.477 -21.263  1.00  9.50      SEG1
ATOM   2582  C   ALA  168      13.814  10.921 -21.351  1.00  9.19      SEG1
ATOM   2583  O   ALA  168      12.802  11.496 -21.707  1.00  9.45      SEG1
ATOM   2584  N   ARG  169      14.889  10.898 -22.102  1.00  9.54      SEG1
ATOM   2585  HN  ARG  169      15.691  10.421 -21.799  1.00  9.50      SEG1
ATOM   2586  CA  ARG  169      14.885  11.589 -23.430  1.00 10.22      SEG1
ATOM   2587  HA  ARG  169      13.875  11.831 -23.723  1.00 10.32      SEG1
ATOM   2588  CB  ARG  169      15.717  12.879 -23.280  1.00 10.36      SEG1
ATOM   2589  HB1 ARG  169      15.480  13.541 -24.101  1.00 10.76      SEG1
ATOM   2590  HB2 ARG  169      16.766  12.635 -23.319  1.00 10.21      SEG1
ATOM   2591  CG  ARG  169      15.412  13.597 -21.959  1.00 10.51      SEG1
ATOM   2592  HG1 ARG  169      15.902  13.079 -21.148  1.00 10.29      SEG1
ATOM   2593  HG2 ARG  169      14.345  13.605 -21.789  1.00 10.79      SEG1
ATOM   2594  CD  ARG  169      15.931  15.037 -22.030  1.00 10.93      SEG1
ATOM   2595  HD1 ARG  169      15.512  15.627 -21.231  1.00 11.12      SEG1
ATOM   2596  HD2 ARG  169      15.682  15.474 -22.988  1.00 11.10      SEG1
ATOM   2597  NE  ARG  169      17.421  14.950 -21.875  1.00 11.16      SEG1
ATOM   2598  HE  ARG  169      17.987  14.946 -22.675  1.00 11.22      SEG1
ATOM   2599  CZ  ARG  169      17.988  14.956 -20.684  1.00 11.49      SEG1
ATOM   2600  NH1 ARG  169      19.290  15.019 -20.594  1.00 11.90      SEG1
ATOM   2601 HH11 ARG  169      19.848  15.062 -21.421  1.00 11.96      SEG1
ATOM   2602 HH12 ARG  169      19.728  15.028 -19.694  1.00 12.28      SEG1
ATOM   2603  NH2 ARG  169      17.276  14.870 -19.586  1.00 11.63      SEG1
ATOM   2604 HH21 ARG  169      16.282  14.794 -19.631  1.00 11.47      SEG1
ATOM   2605 HH22 ARG  169      17.732  14.883 -18.697  1.00 12.03      SEG1
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FIG. 2 (35 of 35)

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ATOM   2606  C   ARG   169      15.534  10.680 -24.477  1.00 10.92      SEG1
ATOM   2607  OT1 ARG   169      15.667   9.498 -24.206  1.00 11.30      SEG1
ATOM   2608  OT2 ARG   169      15.898  11.183 -25.529  1.00 11.23      SEG1
END
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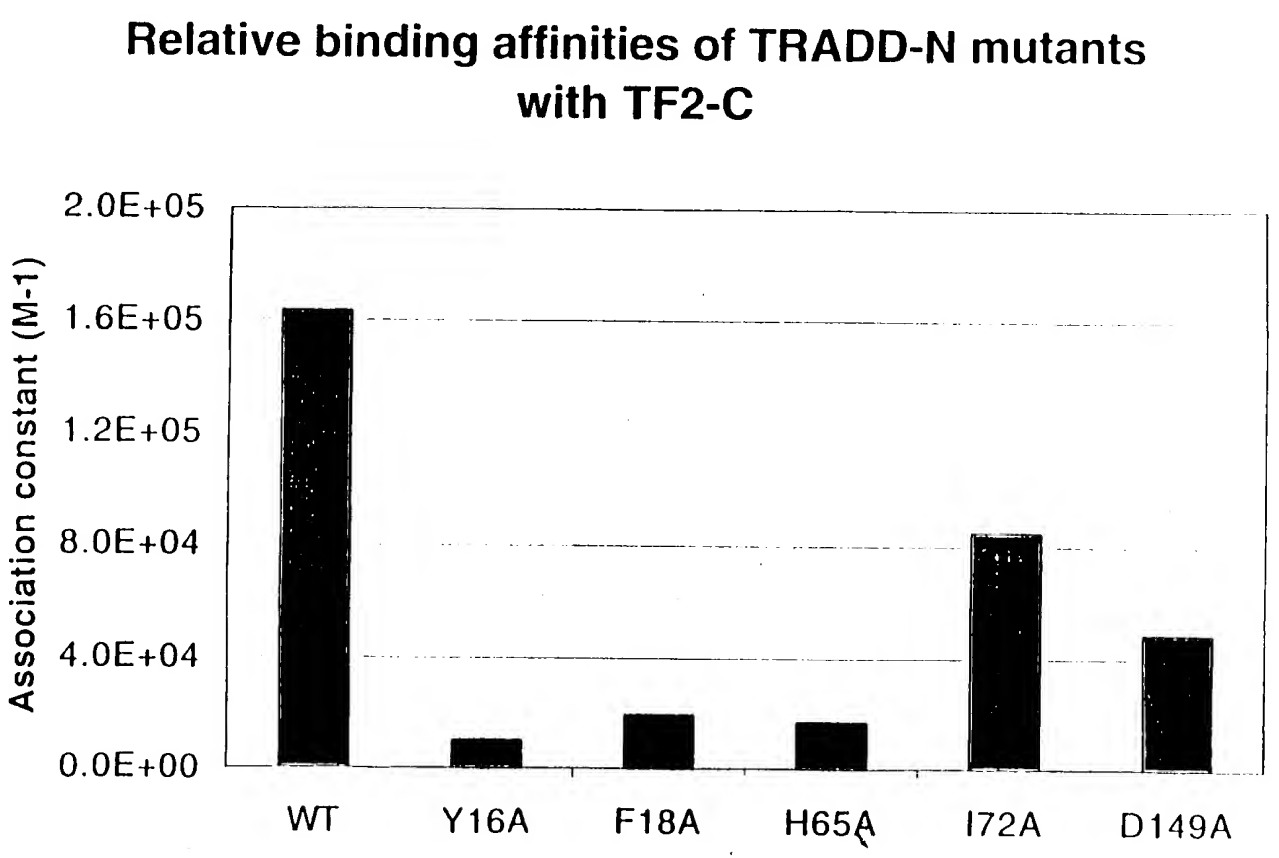
Relative binding affinities of TRADD-N mutants with TF2-C
Association constant (M-1)
2.0E+05
1.6E+05
1.2E+05
8.0E+04
4.0E+04
0.0E+00
WT
Y16A
F18A
H65A
I72A
D149A

FIG. 3